

# **FARFISA**

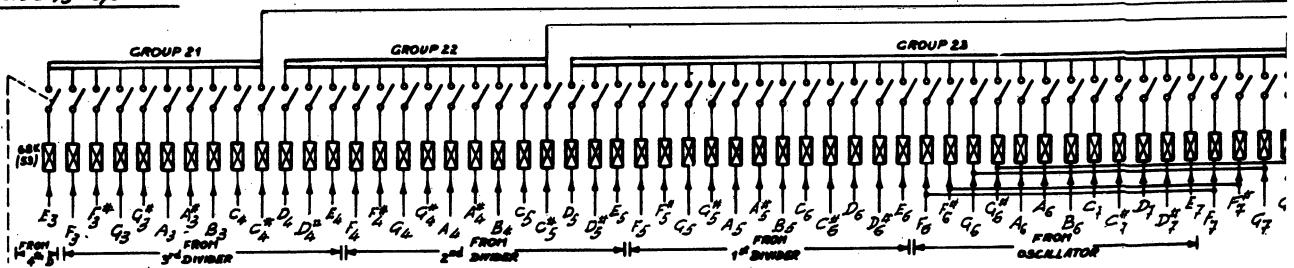
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## **TRANSICORD DE LUXE**

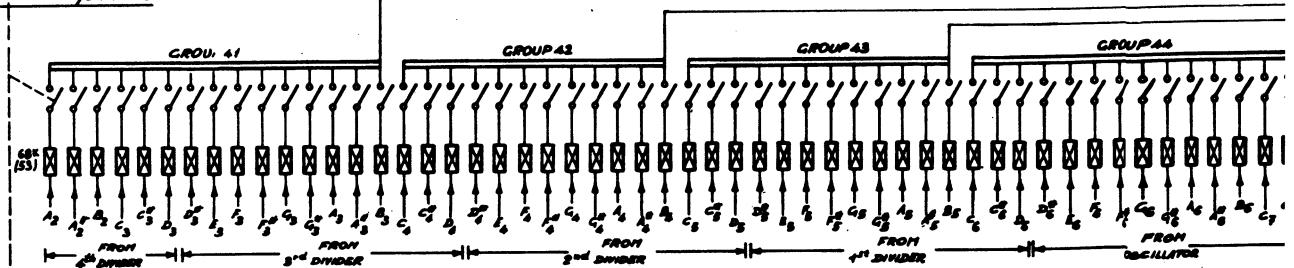
## **SERVICE MANUAL**

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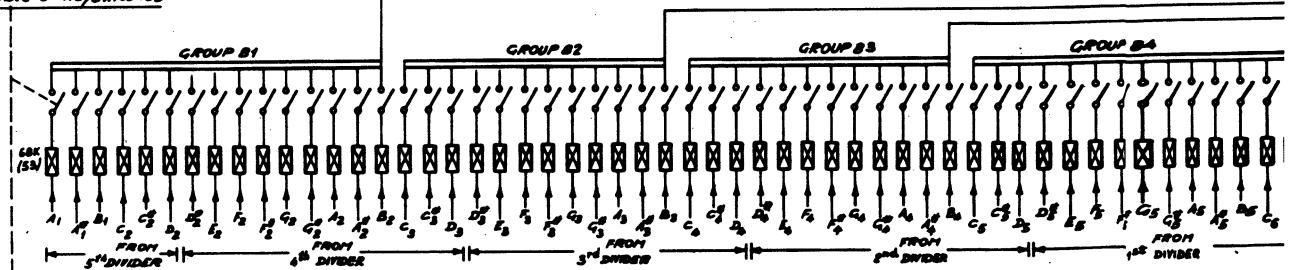
Treble 2'95 Keyswitches



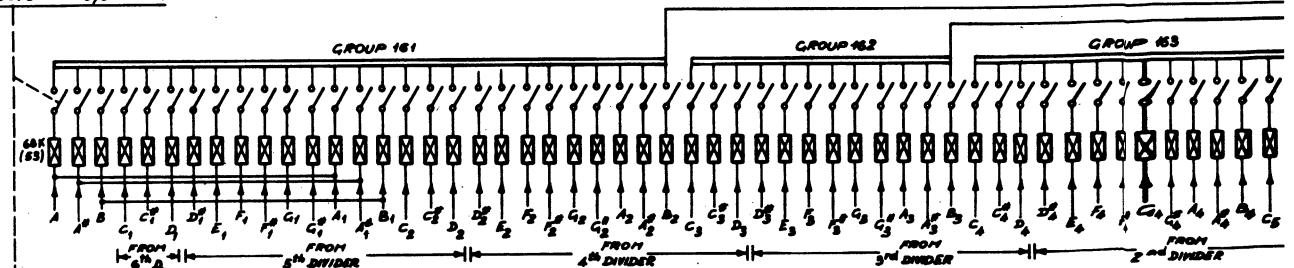
Treble 6' Keyswitches



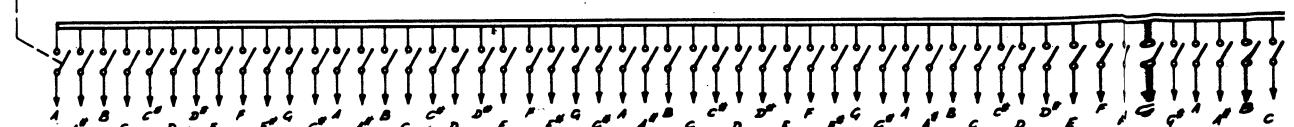
Treble 8' Keyswitches



Treble 16' Keyswitches

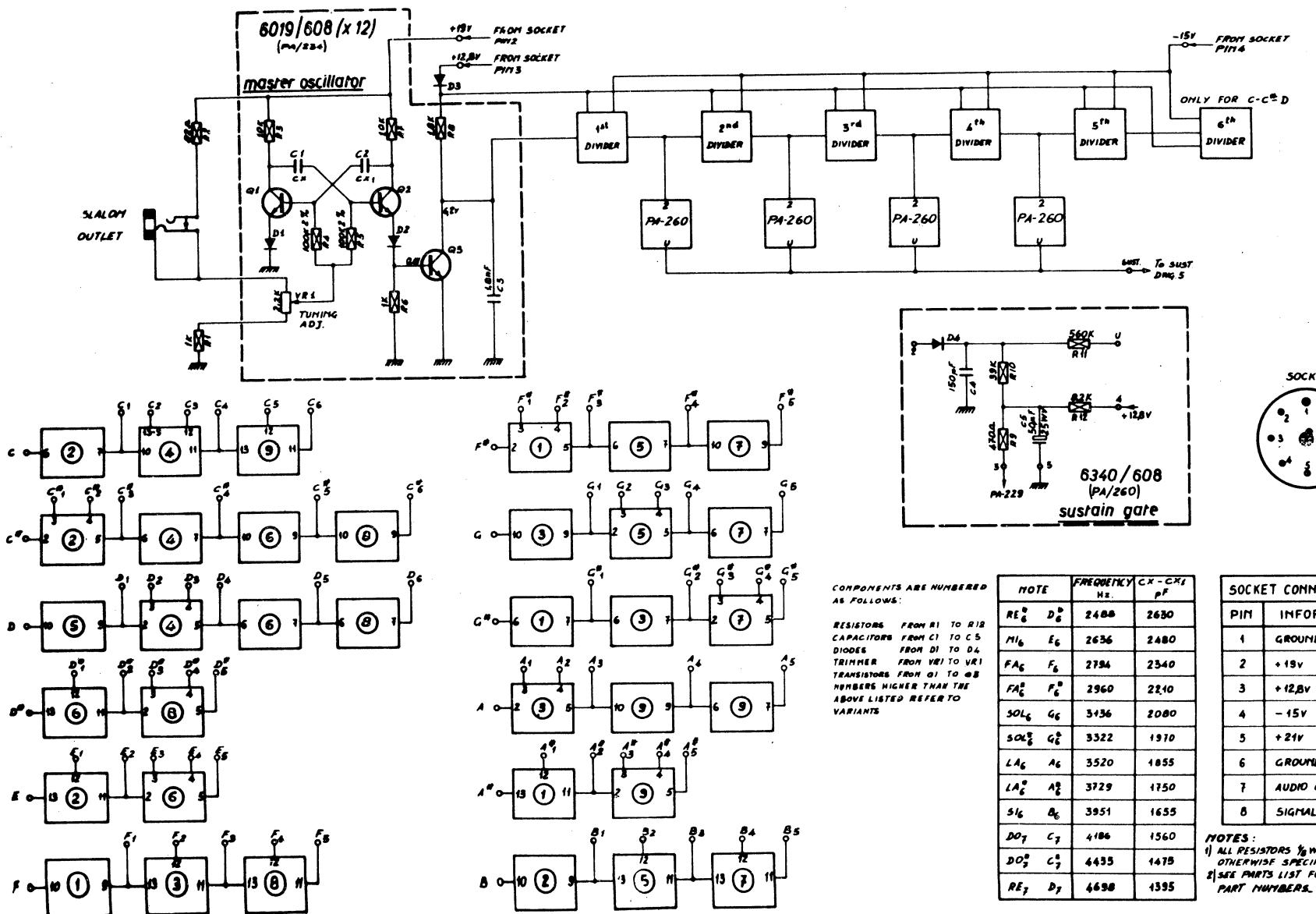
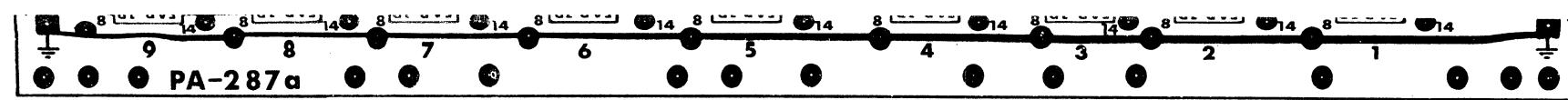


Treble sustain Keyswitches



REVERSE KEYBOARD - DO (C) 2<sup>nd</sup> ROW

System : Belgian; Charleroi



COMPONENTS ARE NUMBERED AS FOLLOWS:

RESISTORS FROM R1 TO R10  
 CAPACITORS FROM C1 TO C10  
 DIODES FROM D1 TO D10  
 TRIMMER FROM VR1 TO VR10  
 TRANSISTORS FROM Q1 TO Q10  
 NUMBERS HIGHER THAN THESE  
 ABOVE LISTED REFERRED  
 TO VARIOUS MANS

NOTE	FREQUENCY Hz.	CX - CXF PF	
RE <sup>6</sup> D <sup>6</sup>	2480	2630	
MI <sub>6</sub>	E <sub>6</sub>	2636	2480
FA <sub>6</sub>	F <sub>6</sub>	2784	2340
FA <sup>6</sup>	F <sup>6</sup>	2960	2210
SOL <sub>6</sub>	G <sub>6</sub>	3136	2080
SOL <sup>6</sup>	G <sup>6</sup>	3322	1970
LA <sub>6</sub>	A <sub>6</sub>	3520	1855
LA <sup>6</sup>	A <sup>6</sup>	3729	1750
SI <sub>6</sub>	B <sub>6</sub>	3951	1655
DO <sub>7</sub>	C <sub>7</sub>	4186	1560
DO <sup>7</sup>	C <sup>7</sup>	4435	1475
RE <sub>7</sub>	D <sub>7</sub>	4690	1395

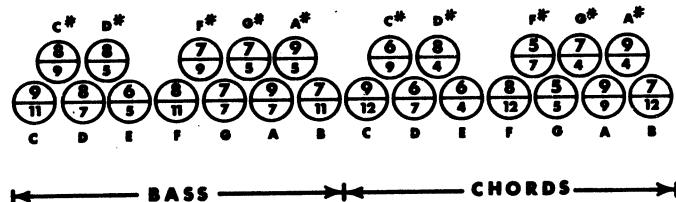
SOCKET CONNECTIONS	
PIN	INFORMATION
1	GROUND
2	+19V
3	+12.8V
4	-15V
5	+24V
6	GROUND
7	AUDIO GROUND
8	SIGNAL OUTPUT

**NOTES:**  
1) ALL RESISTORS  $\frac{1}{2}$ W 10% UNLESS  
OTHERWISE SPECIFIED.  
2) SEE PARTS LIST FOR COMPONENT  
PART NUMBERS.

	DATE 26-1-80	REVISION		
OR 8	H/	CP		

REVERSE KEYBOARD - DO (C) 2<sup>nd</sup> ROW

System : Belgian; Charleroi



## 1. NOTE

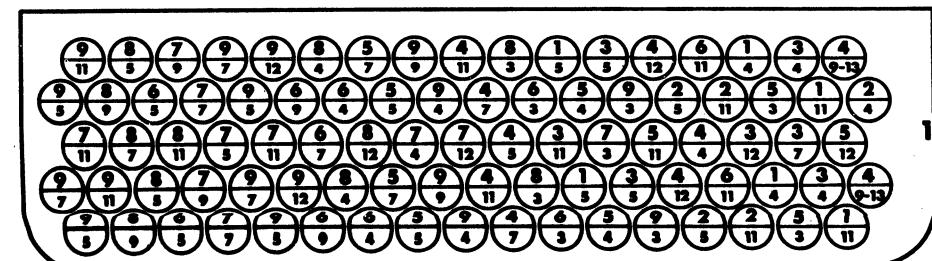
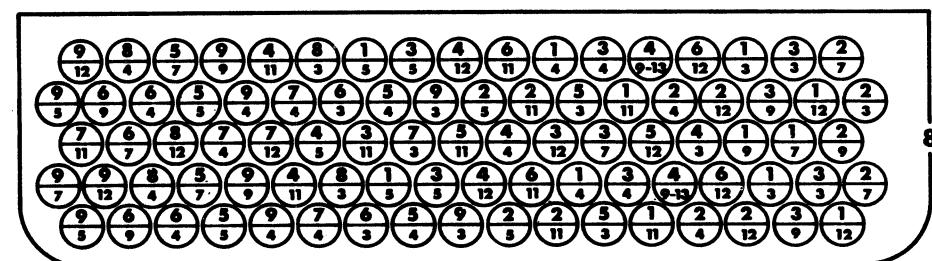
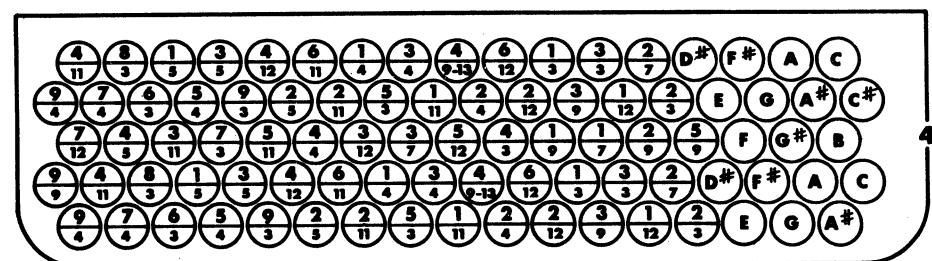
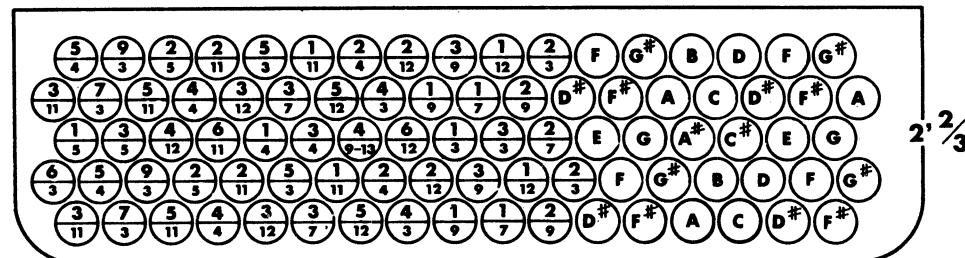
The tone generators referring to the notes of the keyboard are indicated with two numbers marked on the printed circuit PA-287. The upper number indicates the integrated circuit. The lower one indicates the pin of the IC.

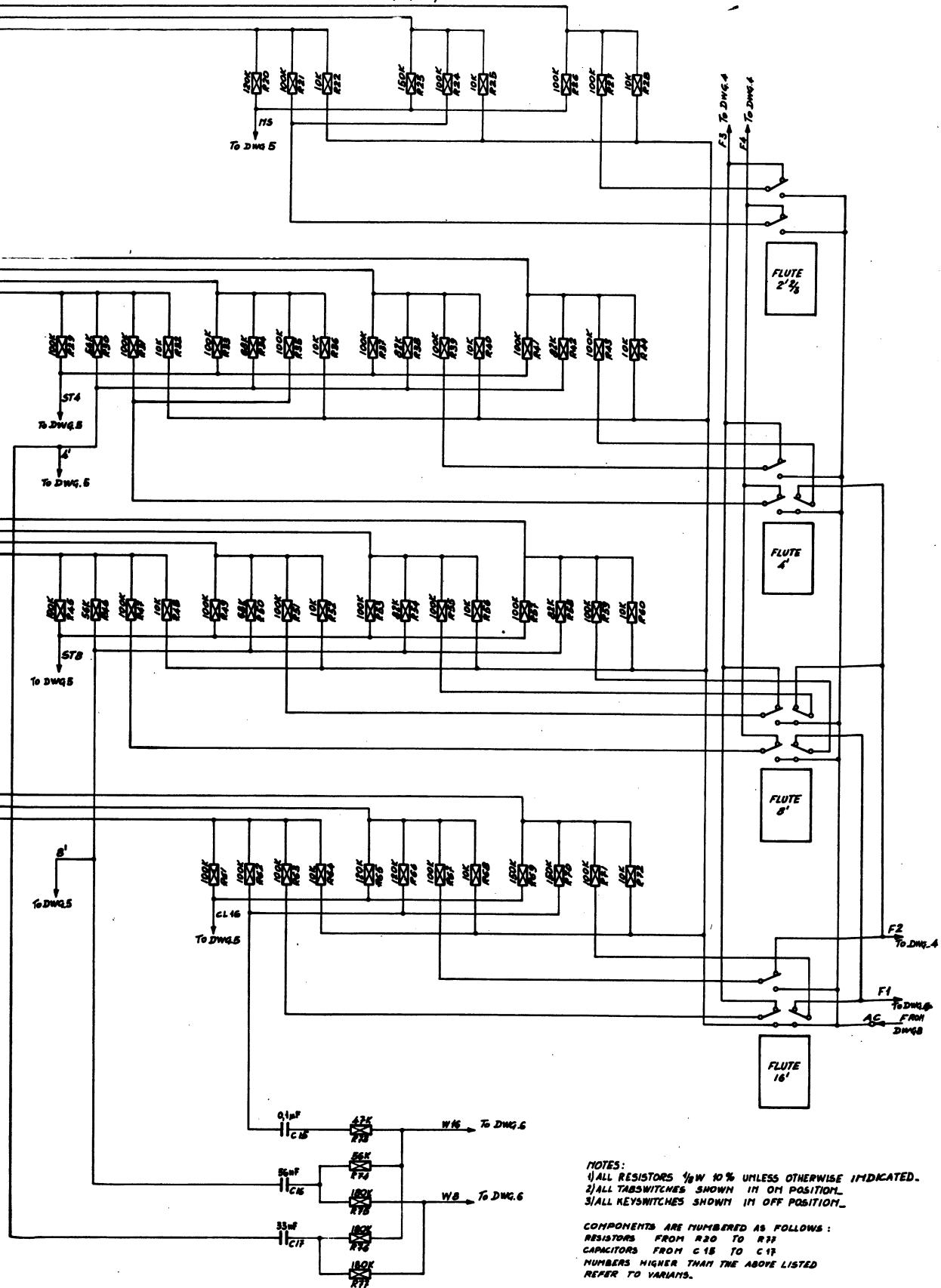
## 2. CONNECTION OF THE IC

In order to avoid any mistake, make connections taking care that the positions of the pins are not inverted on the printed circuit board PA-287. On the printed board the positions are indicated by numbers 1-7 and 8-14 while the corresponding pins of the IC can be found by placing the IC in such a position that figure reads from left to right QN--.

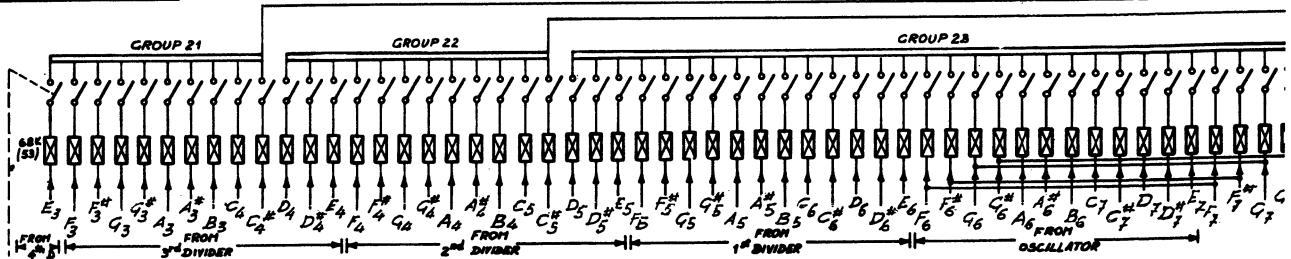


## **REFERENCE TABLE KEY to GENERATOR-BOARD**

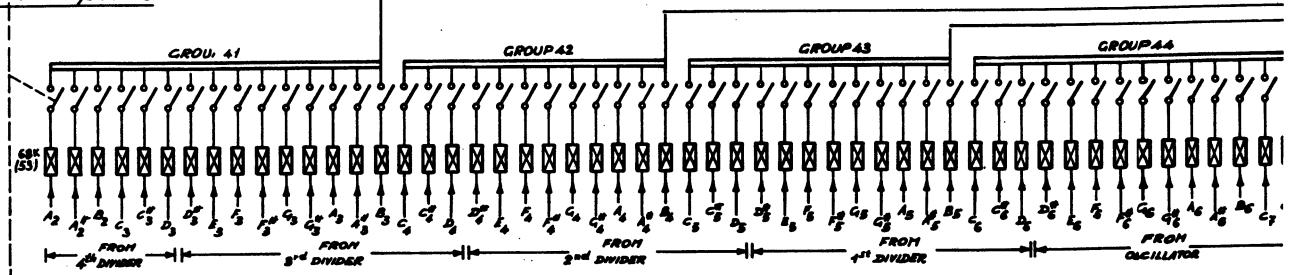


6350 / 608  
(PA/267)

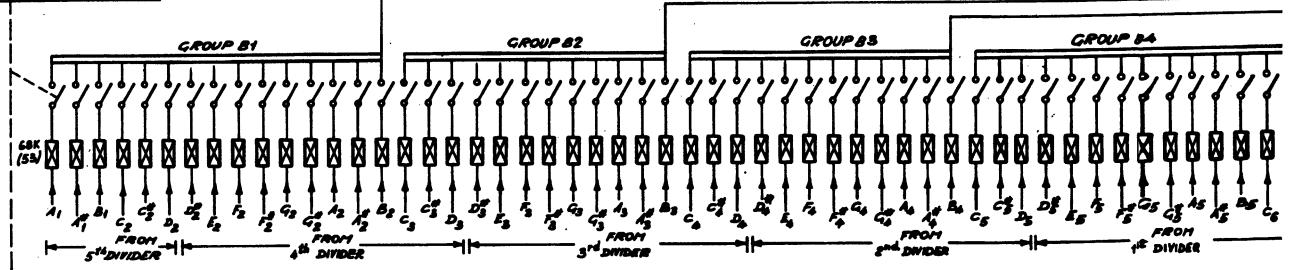
Treble 2<sup>1</sup>/<sub>2</sub> Keyswitches



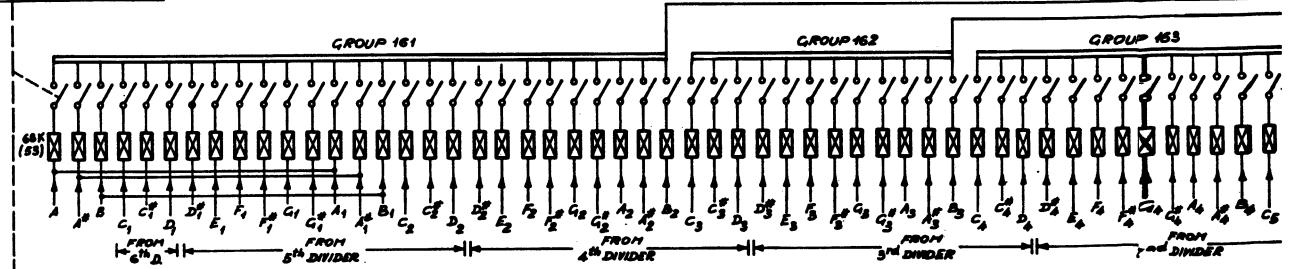
Treble 4' Keyswitches



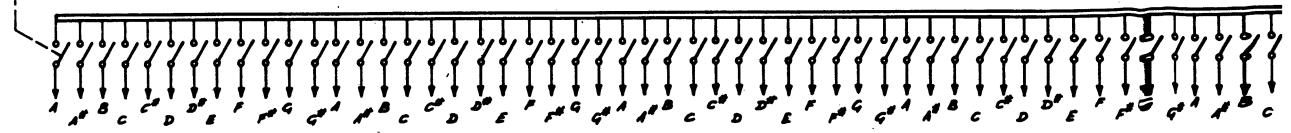
Treble 8' Keyswitches



Treble 16' Keyswitches

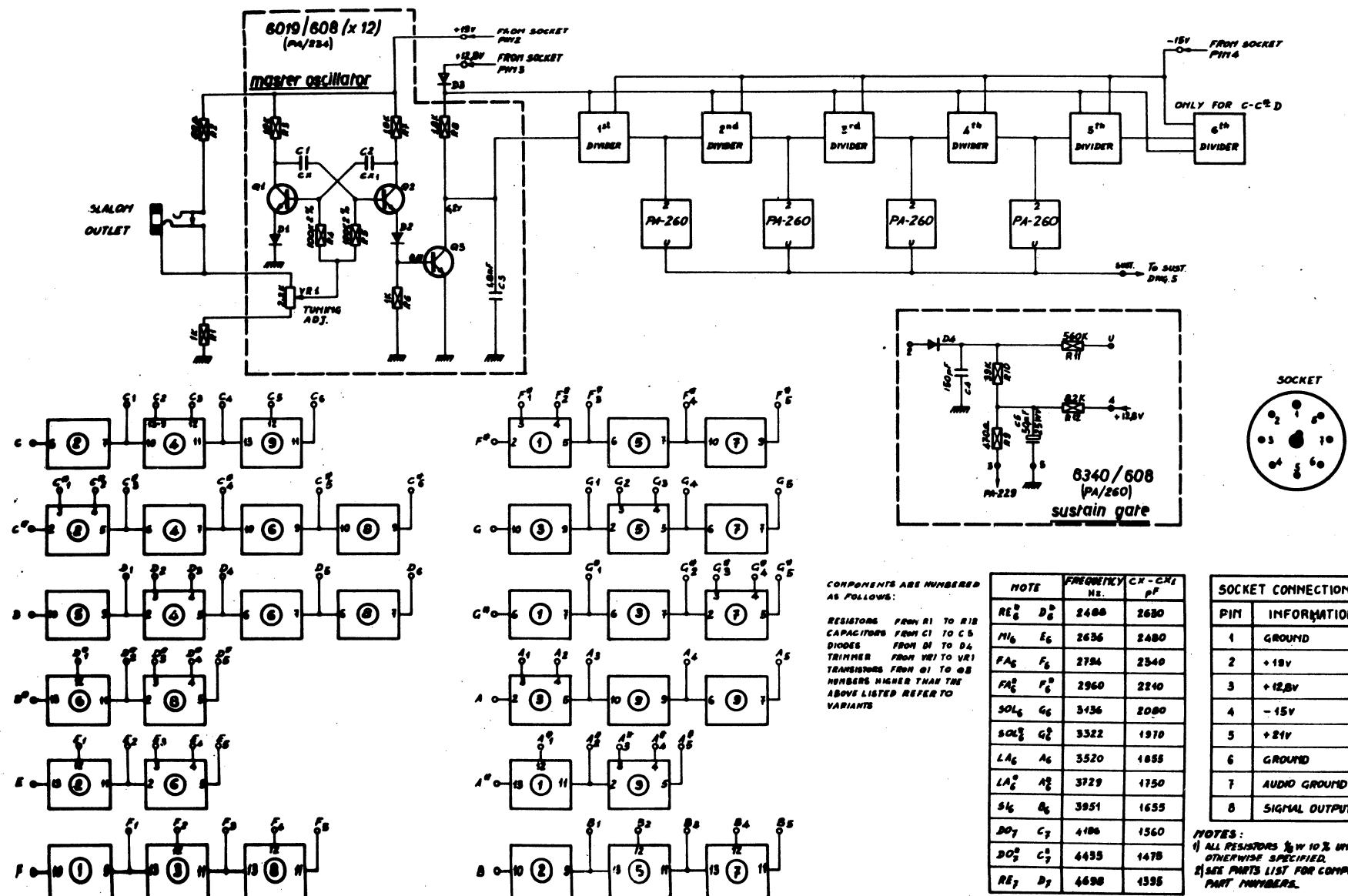
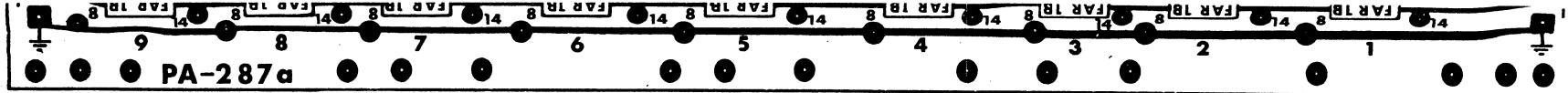


Treble sustain Keyswitches



RIGHT KEYBOARD - DO (C) 1<sup>st</sup> ROW

System : Italian; French  
 Belgian; Bruxellois  
 Swiss; Swedish

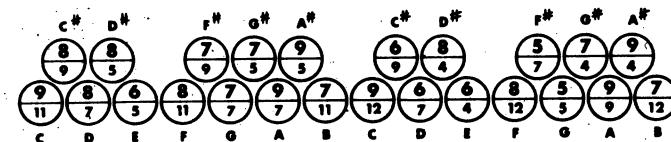


DWG 2 b

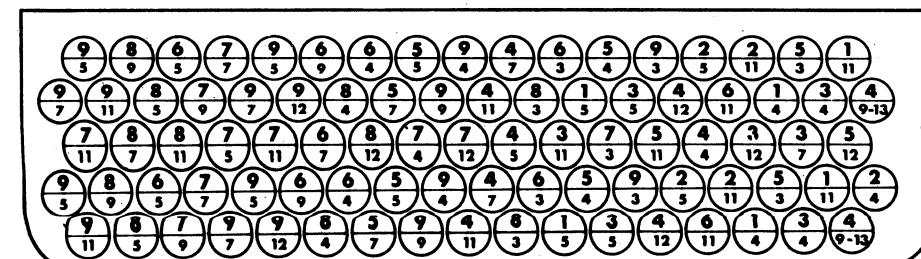
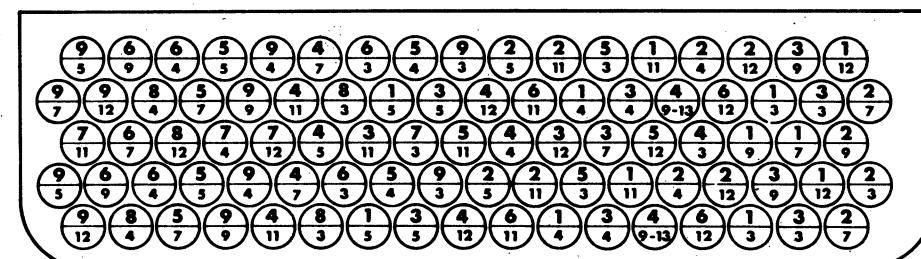
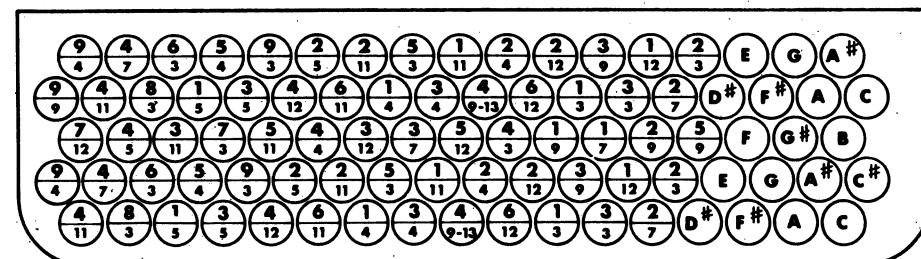
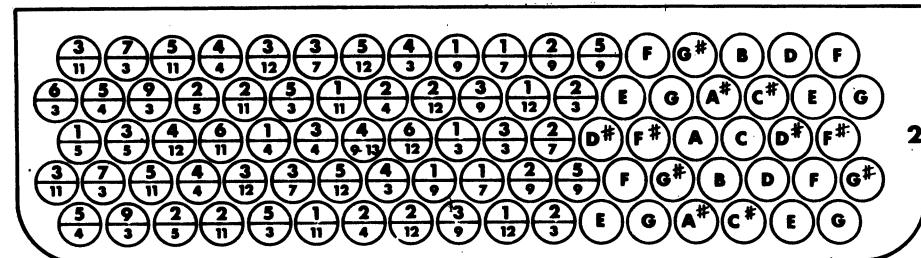
	Part No.	Value	Date	Revised	Comments
PA-287a	PA-287a	PA-287a	20-1-70	CP	

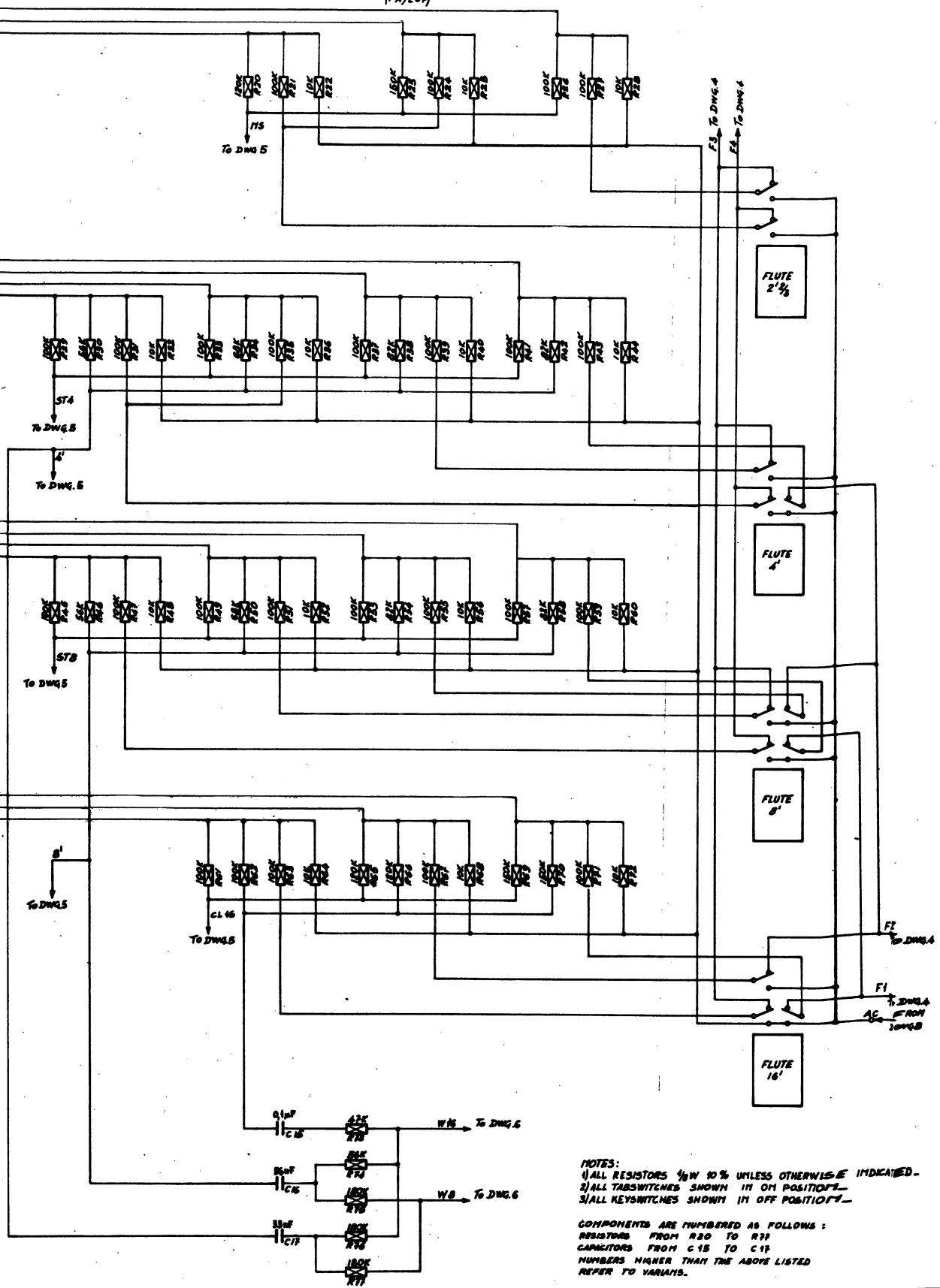
RIGHT KEYBOARD - DO (C) 1<sup>st</sup> ROW

System : Italian; French  
Belgian; Bruxellois  
Swiss; Swedish



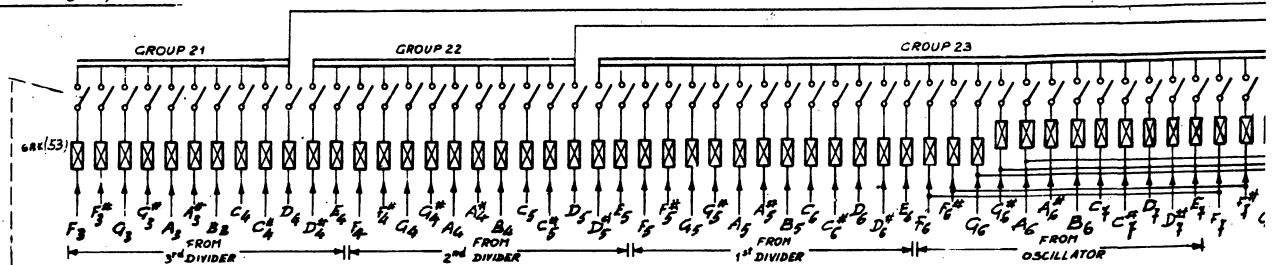
REFERENCE TABLE  
KEY to GENERATOR-BOARD

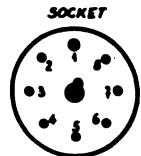
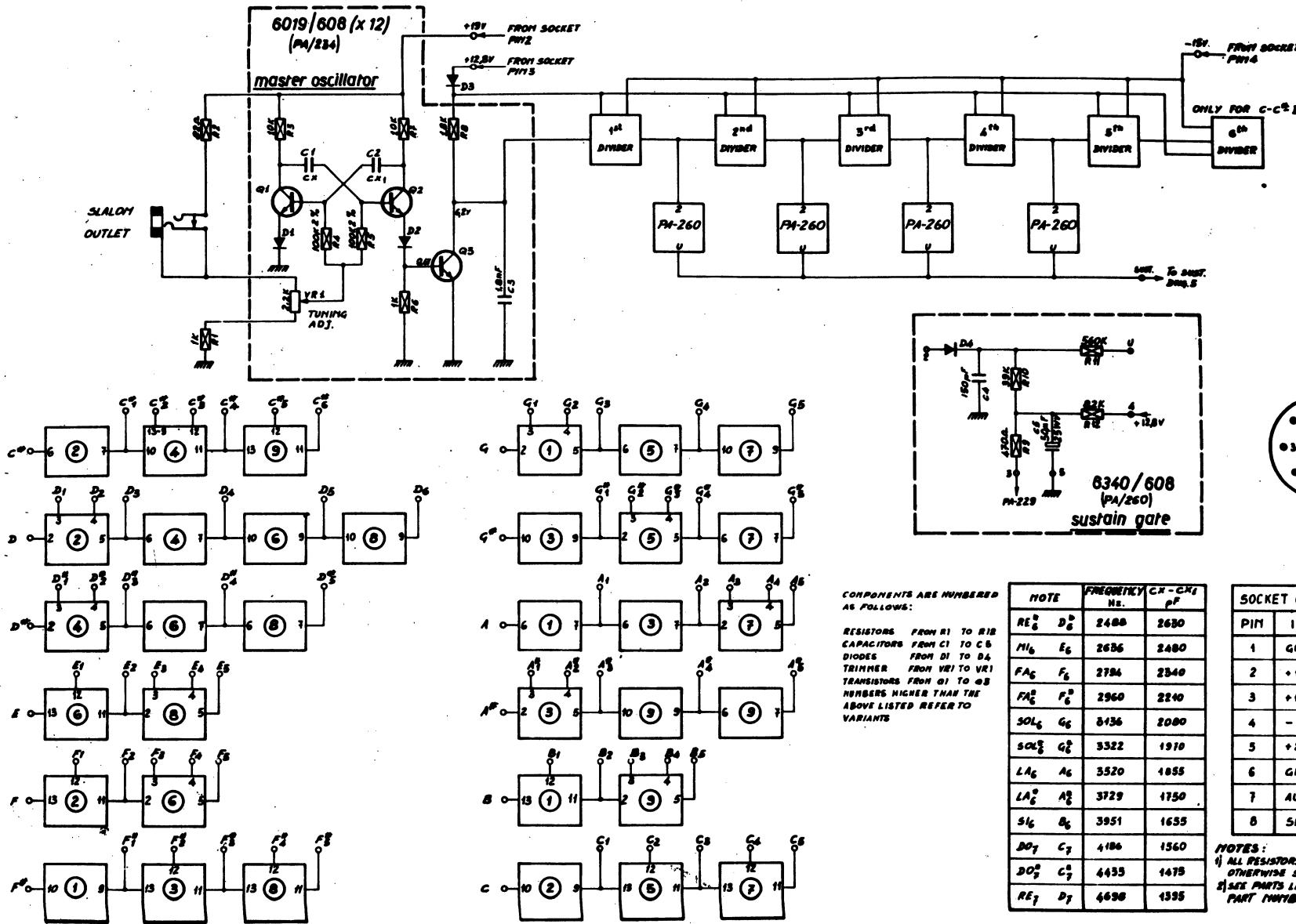


6350/608  
(PA/267)

DWG. 3	DWG. 5	DWG. 6	DWG. 6	DWG. 6	DWG. 6
or 8	or 10				

Treble 2'5 Keyswitches





COMPONENTS ARE NUMBERED  
AS FOLLOWS:

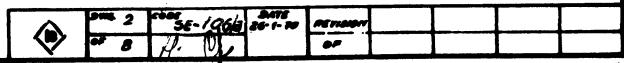
**RESISTORS** FROM R1 TO R18  
**CAPACITORS** FROM C1 TO C6  
**DIODES** FROM D1 TO D4  
**TRIMMER** FROM VR1 TO VR1  
**TRANSISTORS** FROM Q1 TO Q8  
**NUMBERS HIGHER THAN THE**  
**ABOVE LISTED REFER TO**  
**VARIANTS**

NOTE	FREQUENCY Hz.	CH - CH <sub>4</sub> PP
RE <sub>6</sub> D <sub>6</sub>	2480	2630
MI <sub>6</sub> E <sub>6</sub>	2636	2480
FA <sub>6</sub> F <sub>6</sub>	2784	2340
FA <sub>6</sub> F <sub>6</sub>	2960	2240
SOL <sub>6</sub> G <sub>6</sub>	3136	2080
SOL <sub>6</sub> G <sub>6</sub>	3322	1910
LA <sub>6</sub> A <sub>6</sub>	3520	1855
LA <sub>6</sub> A <sub>6</sub>	3729	1750
S <sub>6</sub> B <sub>6</sub>	3951	1655
DO <sub>7</sub> C <sub>7</sub>	4186	1560
DO <sub>7</sub> C <sub>7</sub>	4435	1475
RE <sub>7</sub> D <sub>7</sub>	4690	1395

SOCKET CONNECTIONS	
PIN	INFORMATION
1	GROUND
2	+15V
3	+12.8V
4	-15V
5	+21V
6	GROUND
7	AUDIO GROUND
8	SIGNAL OUTPUT

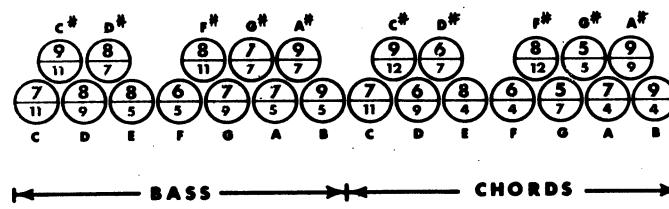
**NOTES:**

- 1) ALL RESISTORS  $\pm 10\%$  UNLESS OTHERWISE SPECIFIED.
- 2) SEE PARTS LIST FOR COMPONENT PART NUMBERS.

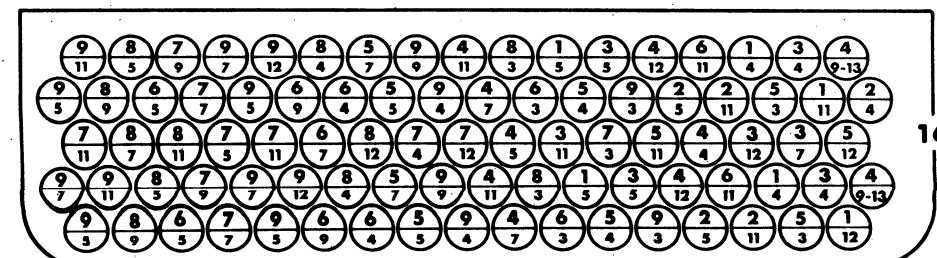
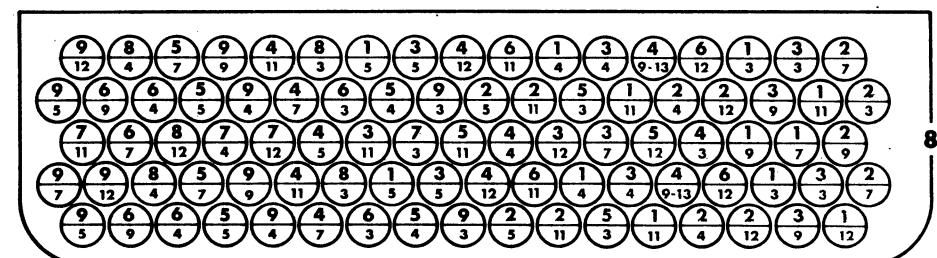
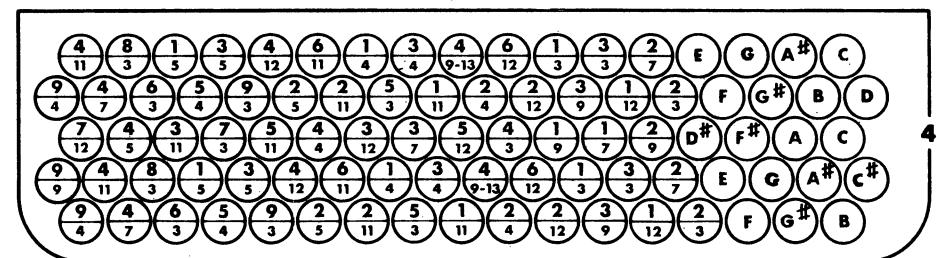
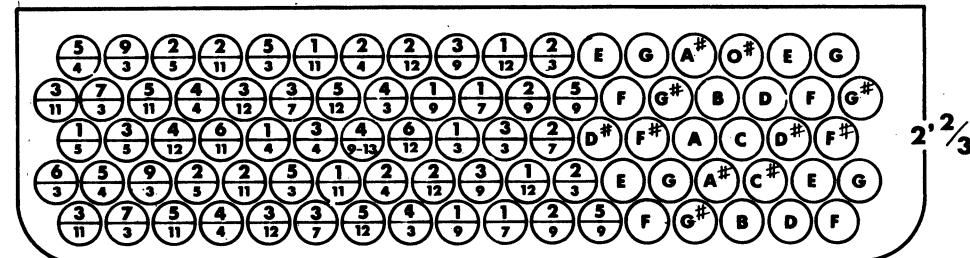


REVERSE KEYBOARD - DO (C) 3<sup>rd</sup> ROW

System : Belgian; Charleroi  
Dutch; Norwegian



REFERENCE TABLE  
KEY to GENERATOR-BOARD

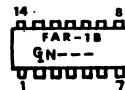


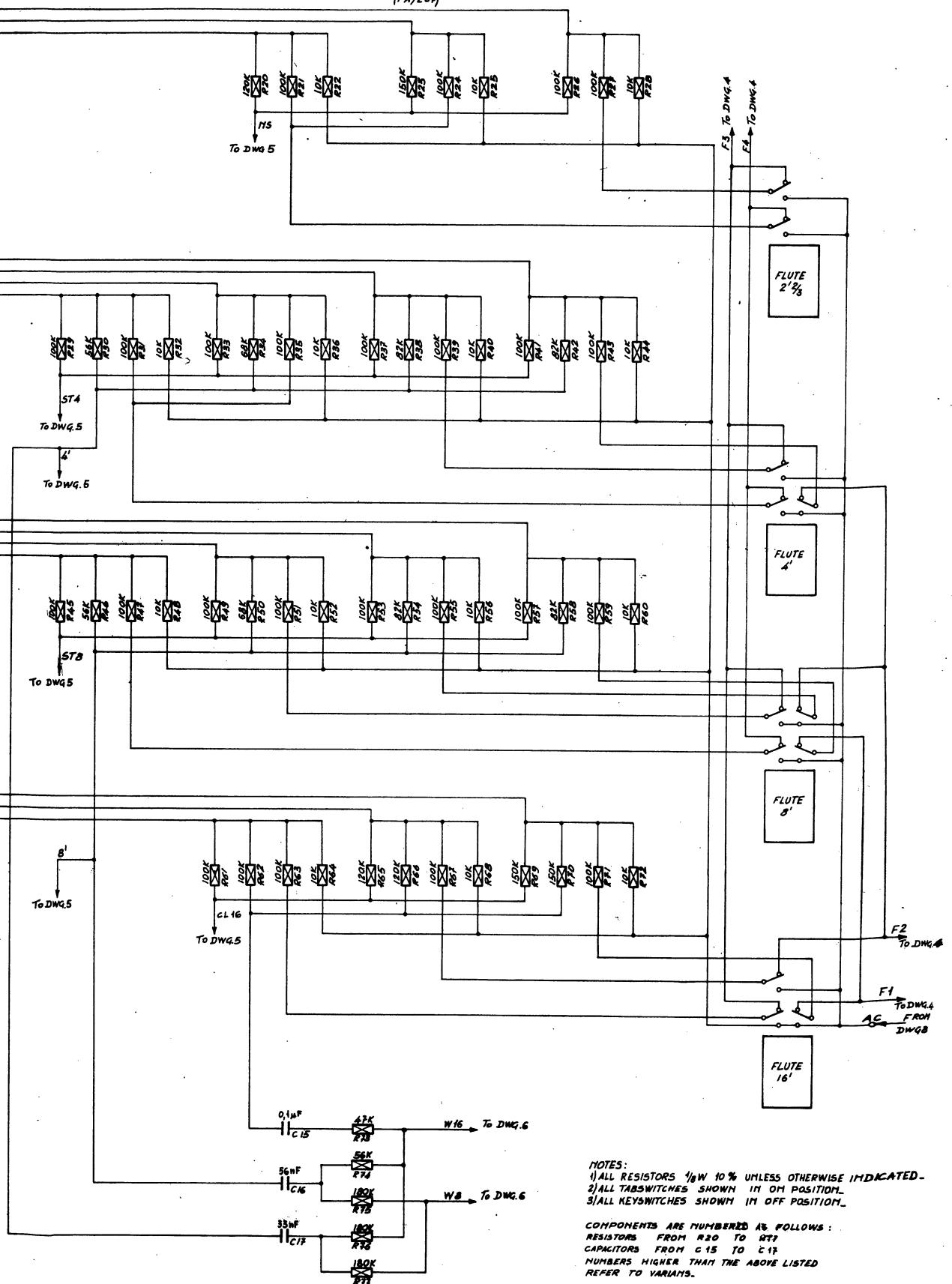
1. NOTE

The tone generators referring to the notes of the keyboard are indicated with two numbers marked on the printed circuit PA-287. The upper number indicates the integrated circuit. The lower one indicates the pin of the IC.

2. CONNECTION OF THE IC.

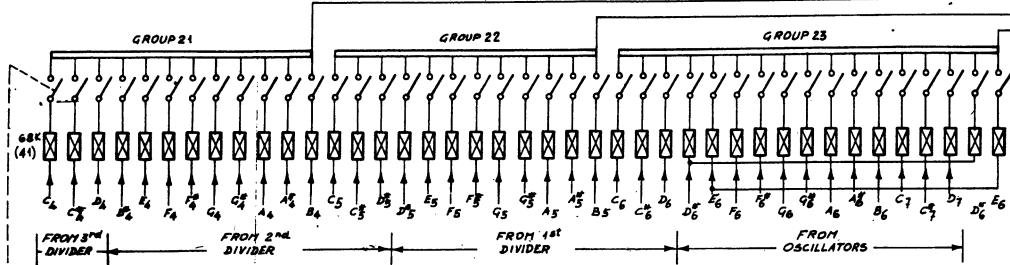
In order to avoid any mistake, make connections taking care that the positions of the pins are not inverted on the printed circuit board PA-287. On the printed board the positions are indicated by numbers 1-7 and 8-14 while the corresponding pins of the IC can be found by placing the IC in such a position that figure reads from left to right QN---



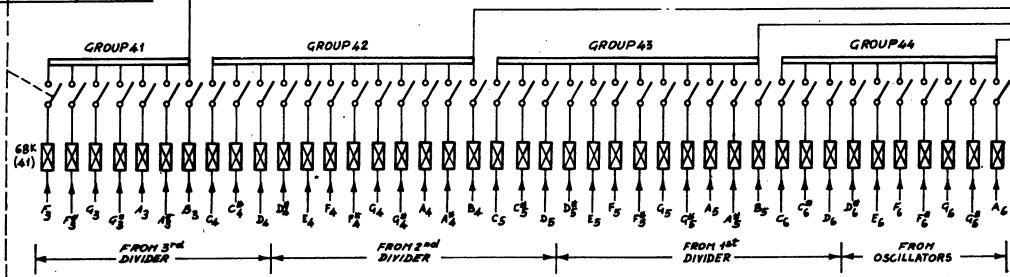
6350/608  
(PA/267)

Treble 2 2/3' Keyswitches

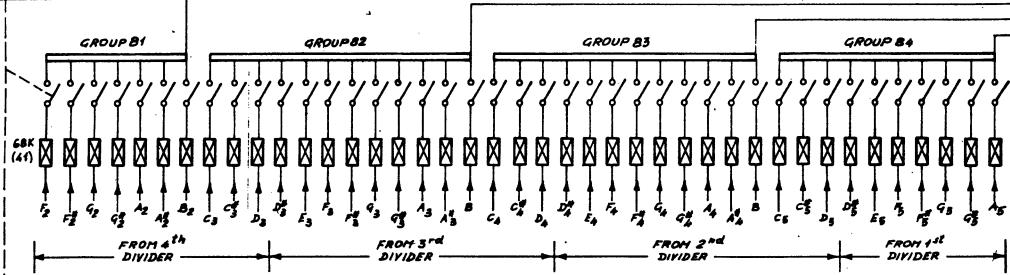
6339/608  
(PA/229)



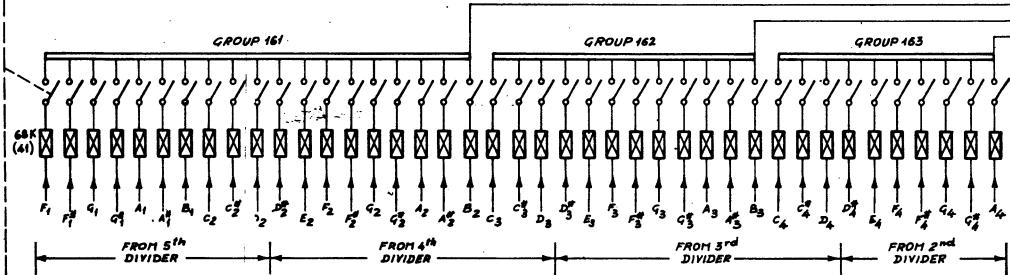
Treble 4' Keyswitches



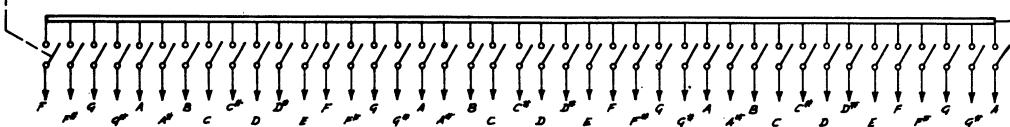
Treble 8' Keyswitches

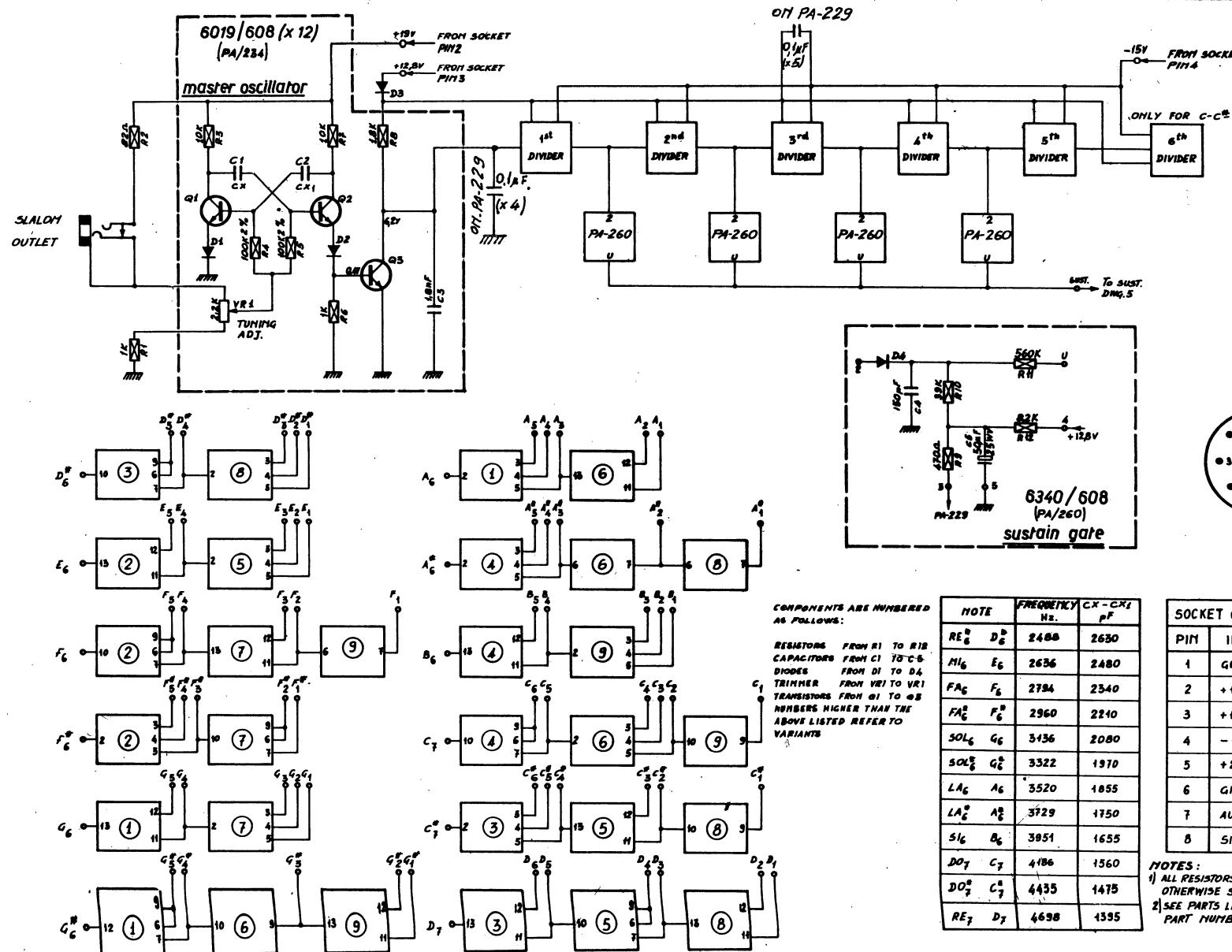


Treble 16' Keyswitches

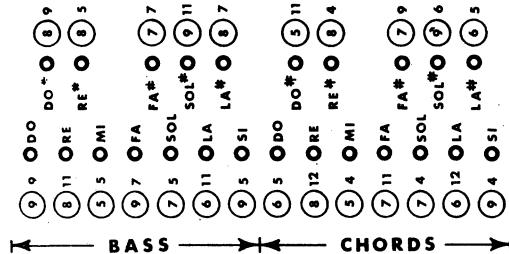


Treble sustain Keyswitches





**REFERENCE TABLE**  
**KEY to GENERATOR-BOARD**



**1. NOTE**

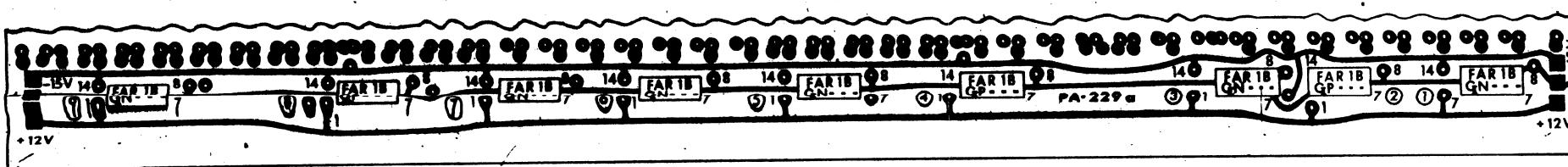
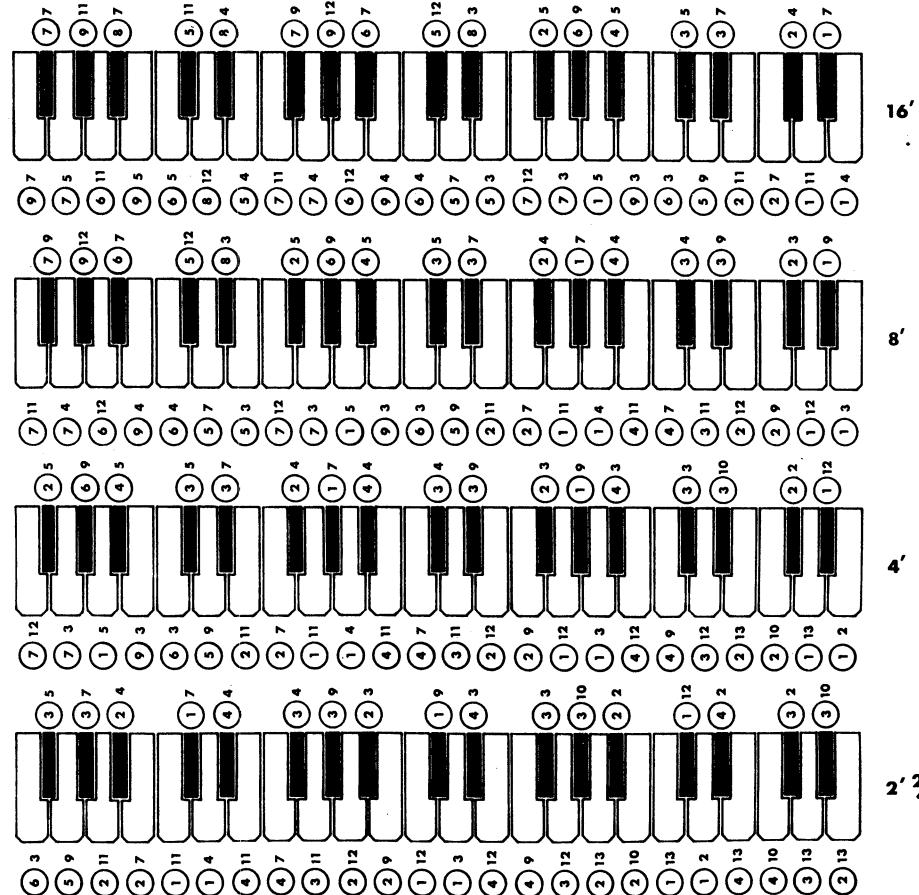
The tone generators referring to the notes of the keyboard are indicated with two numbers marked on the printed circuit PA-229. The circled number indicates the integrated circuit. The second one indicates the pin of the IC.

**2. CONNECTION OF THE IC**

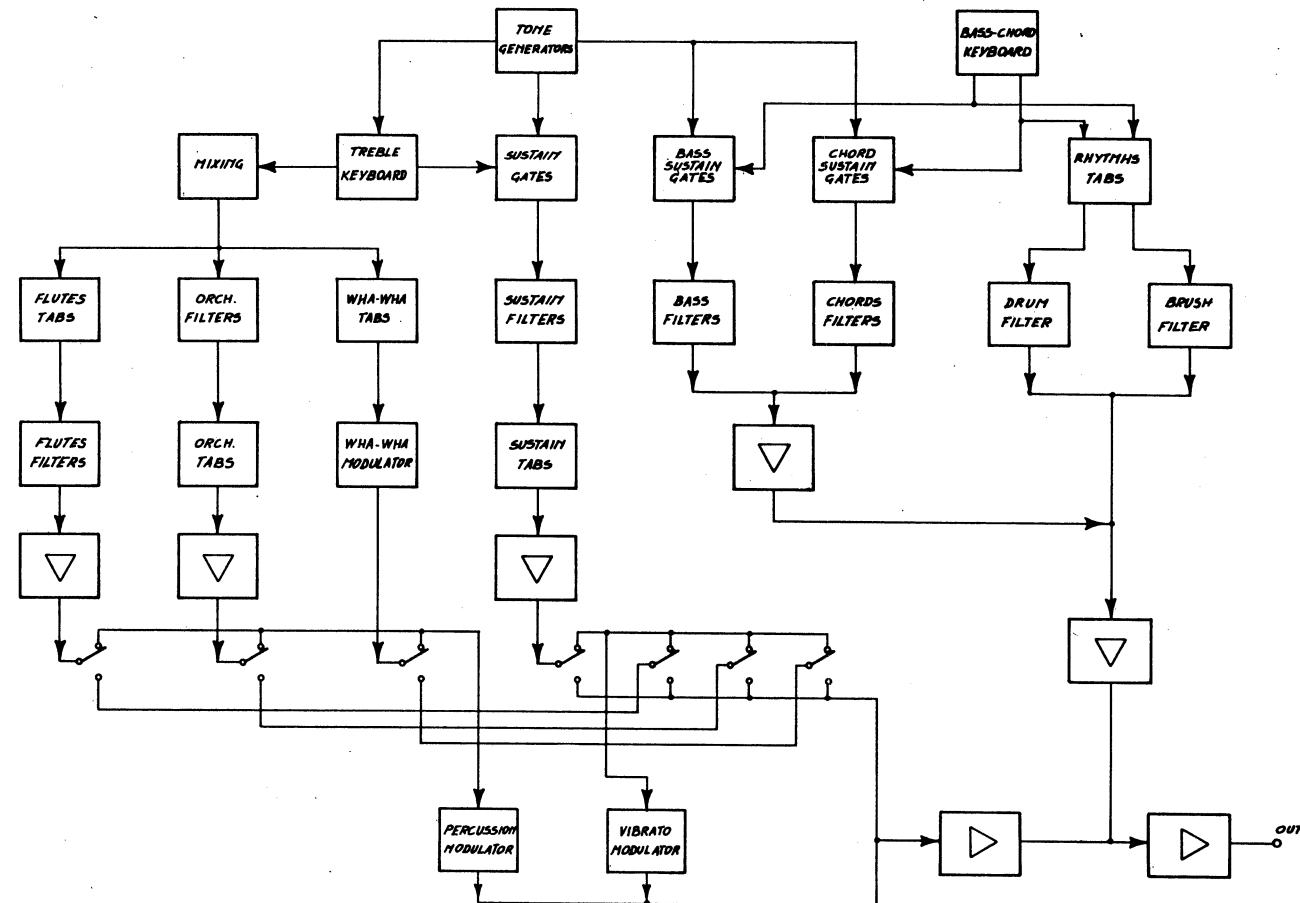
In order to avoid any mistake, make connections taking care that the positions of the pins are not inverted on the printed circuit board PA-229. On the printed board the positions are indicated by numbers 1-7 and 8-14 while the corresponding pins of the IC can be found by placing the IC in such a position that figure reads from left to right **GN--**



PRINTED CIRCUIT

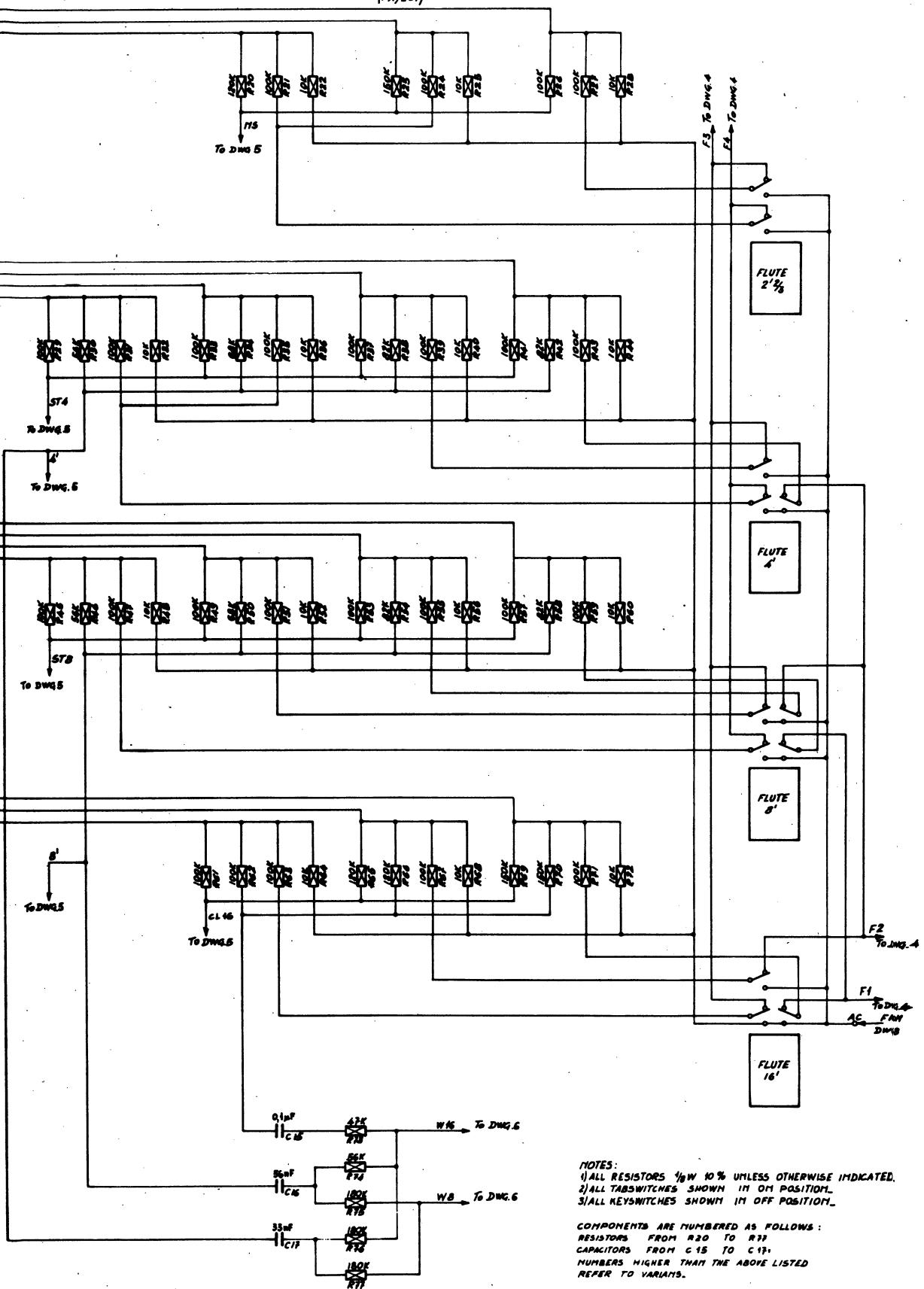


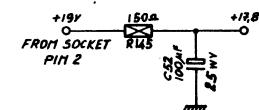
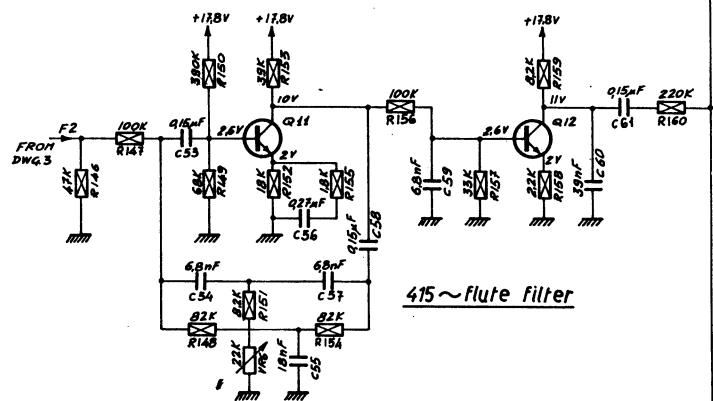
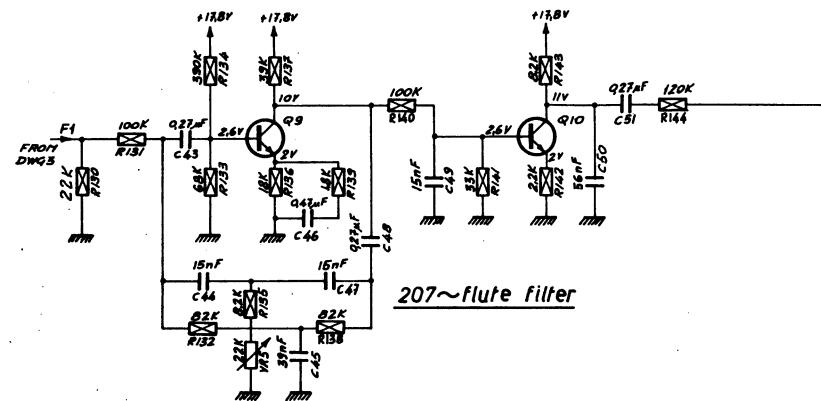
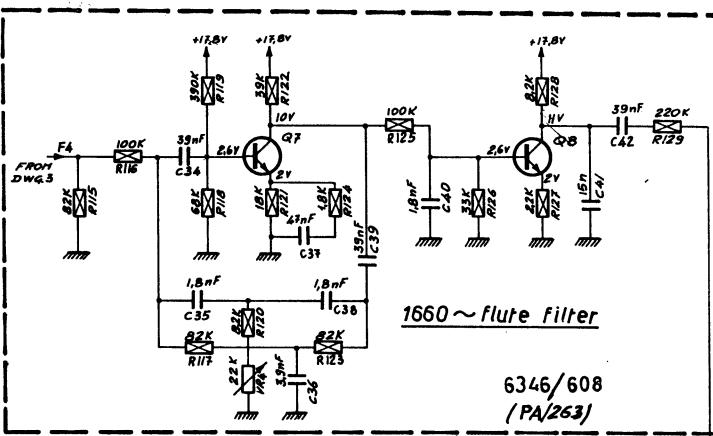
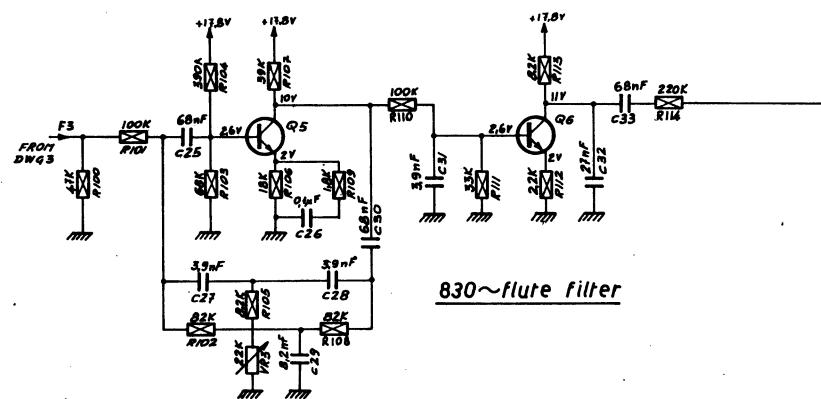
BLOCK DIAGRAM



DWG 1

	DMO. 1	CODE	SE-101	DATE	26-1-70	REVISION			
OF	8	H.				OF			

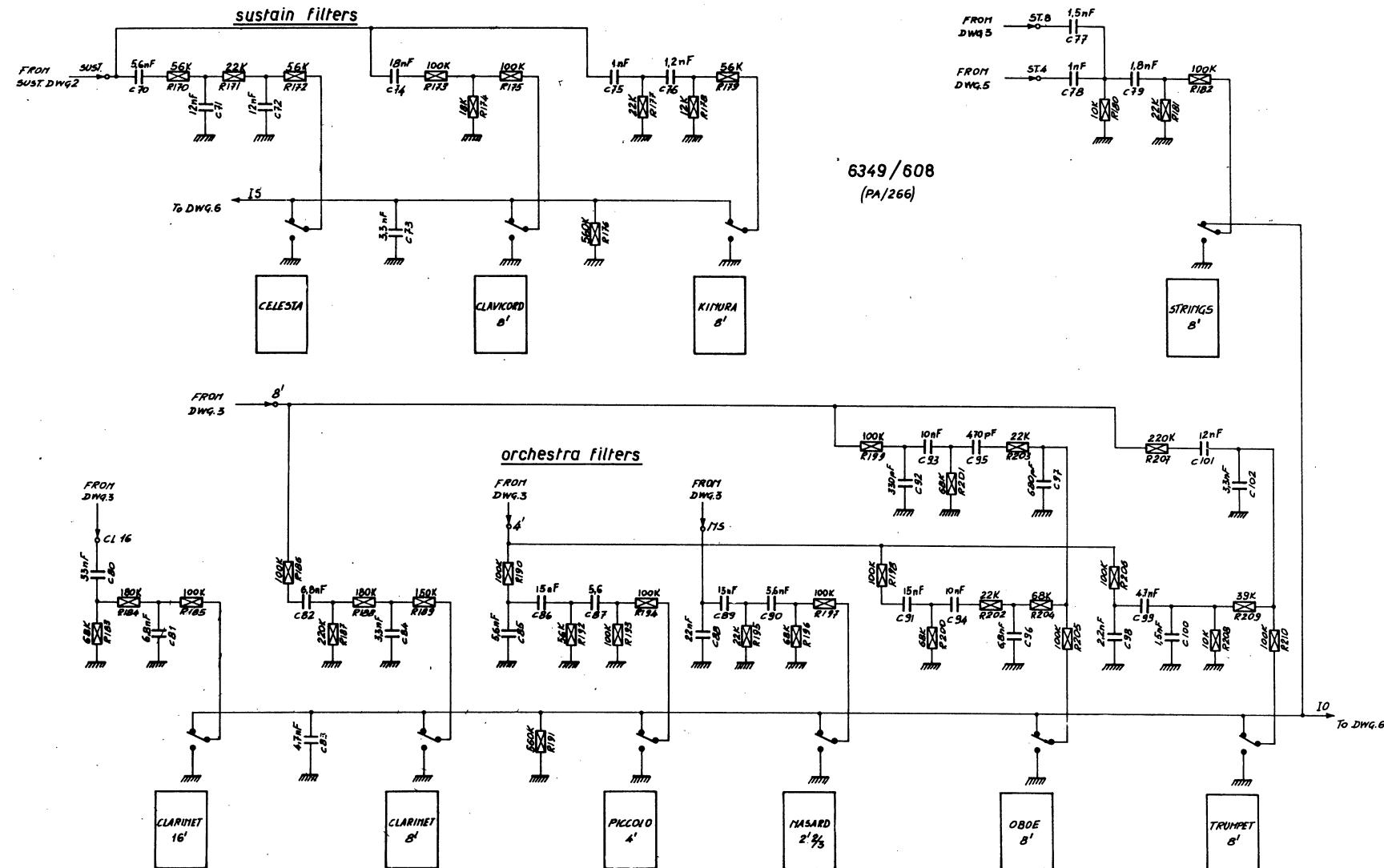
6350/608  
(PA/267)



COMPONENTS ARE NUMBERED AS FOLLOWS:  
RESISTORS FROM R100 TO R160  
CAPACITORS FROM C25 TO C61  
TRIMMERS FROM VR1 TO VR6  
TRANSISTORS FROM Q5 TO Q12  
NOTES: HIGH IN THE ABOVE  
LISTED REFER TO VARIANTS.

NOTES:  
1) ALL RESISTORS 1/8W 10% UNLESS OTHERWISE INDICATED.  
2) SEE PARTS LIST FOR COMPONENT PART NUMBERS.

DWG. 4	CODE	DATE	REVISION
OF 8	SE-106	26-1-70	6402
			OF 27-3-70

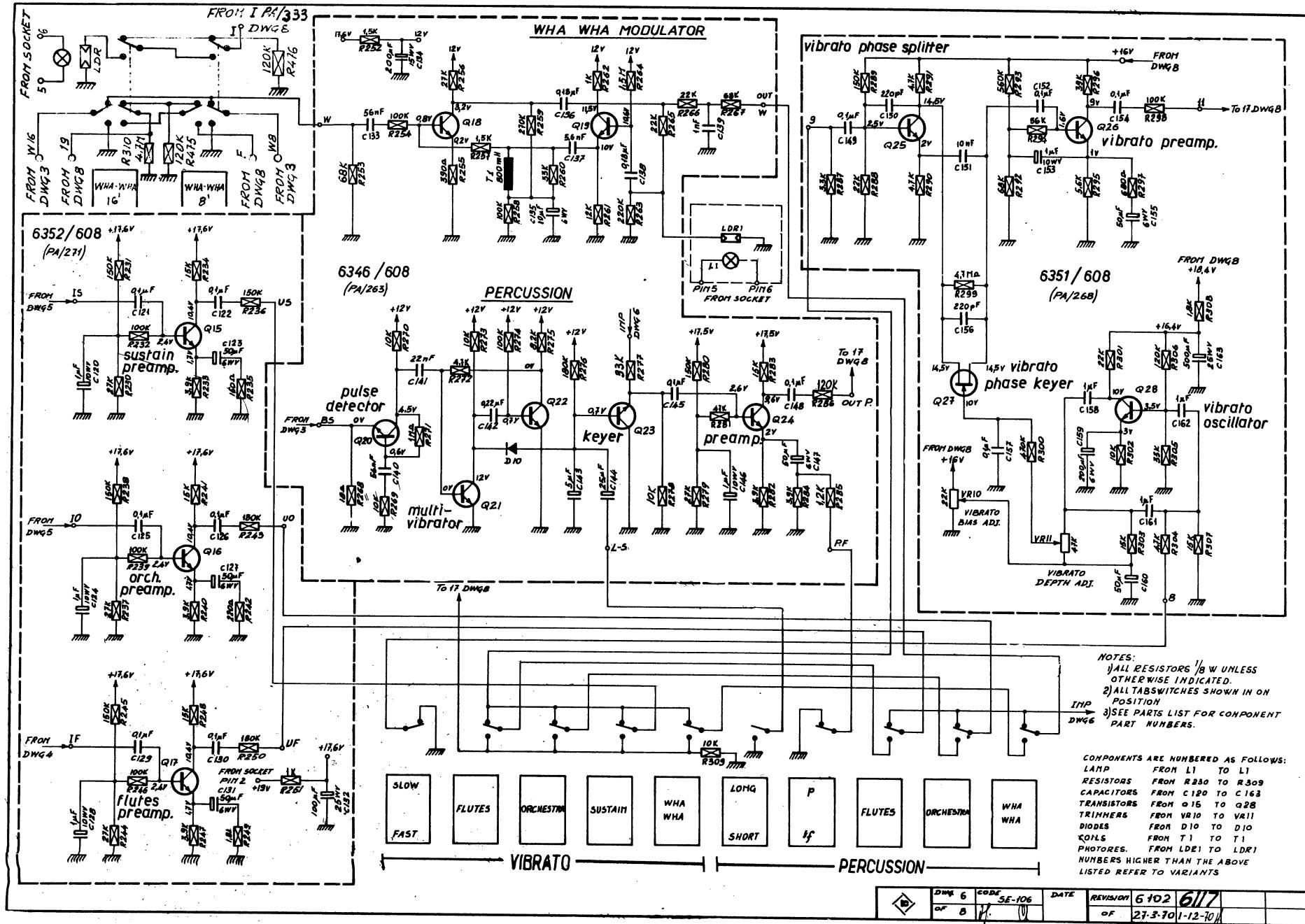


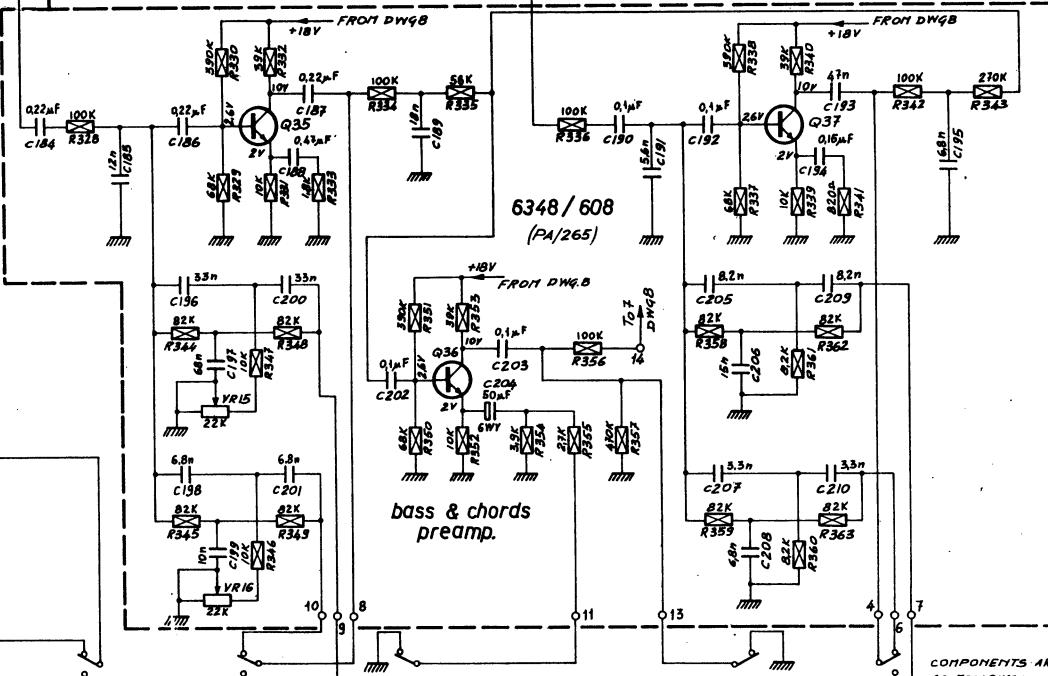
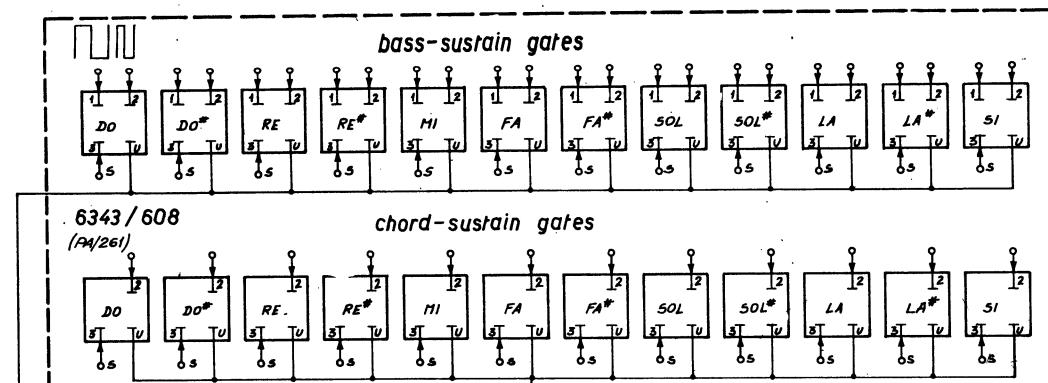
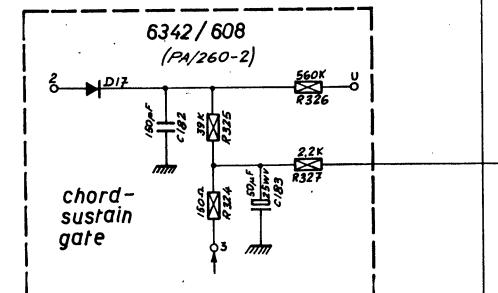
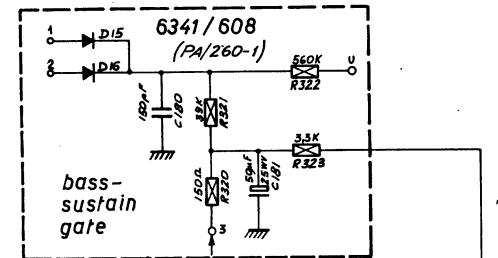
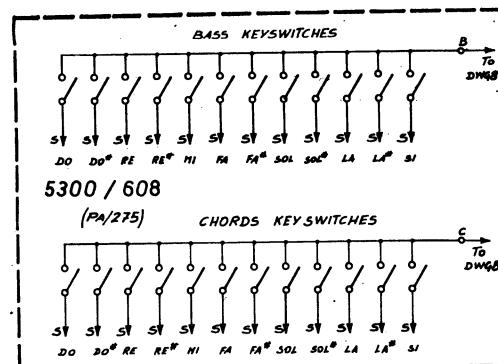
## NOTES:

- 1) ALL RESISTORS 1/8W 10% UNLESS OTHERWISE INDICATED.
- 2) ALL TABSWITCHES SHOWN IN OM POSITION.
- 3) SEE PARTS LIST FOR COMPONENT PART NUMBERS.

COMPONENTS ARE NUMBERED AS FOLLOWS:  
 RESISTORS FROM R 110 TO R 210  
 CAPACITORS FROM C 70 TO C 101  
 NUMBERS HIGHER THAN THE ABOVE LISTED  
 REFER TO VARIANTS.

5	CODE SE-106	DATE 26-1-70	REVISION 0P
OF 8	H	0	



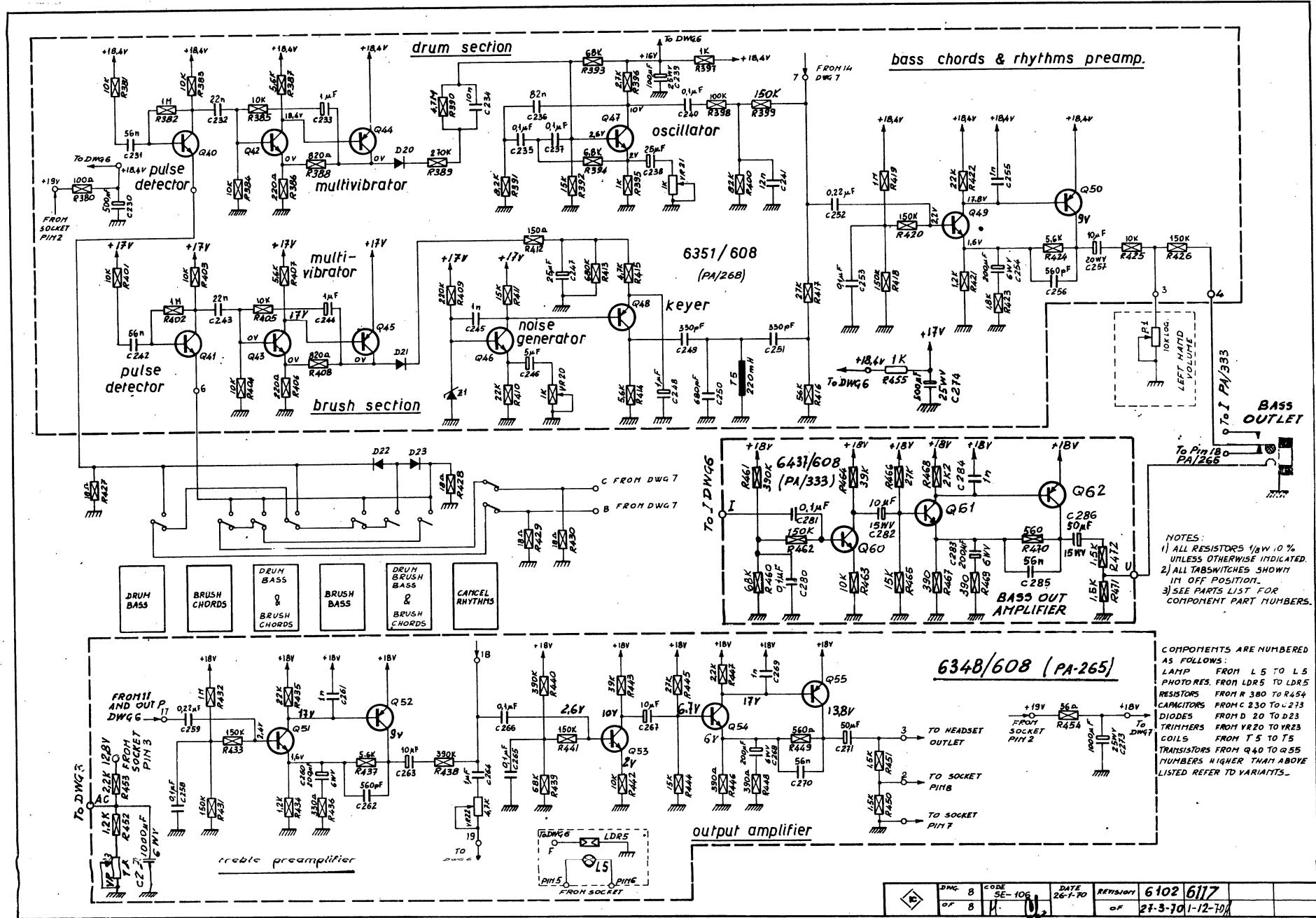


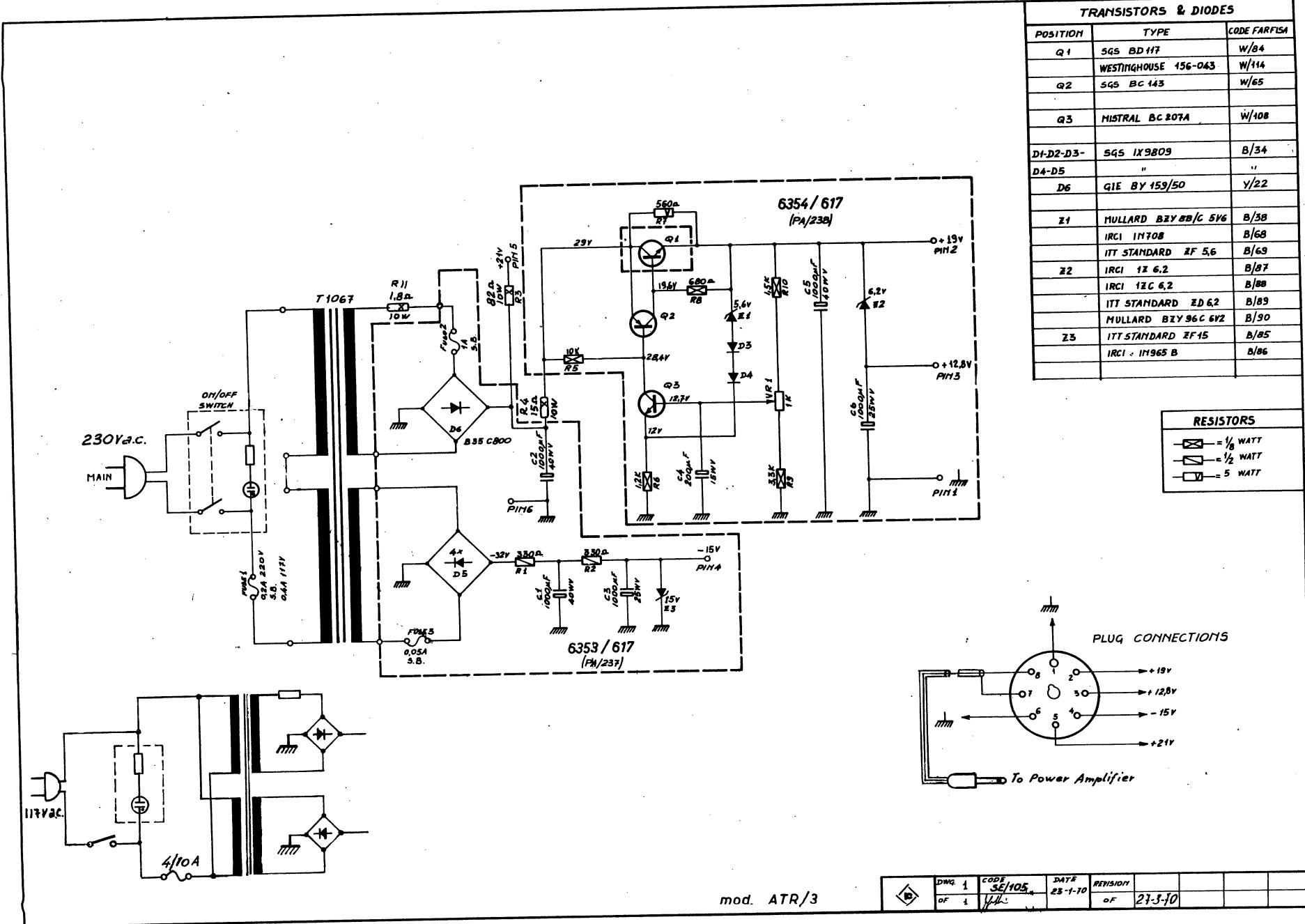
NOTES:

- 1) ALL RESISTORS  $1/8$ W 10% UNLESS OTHERWISE INDICATED.
- 2) ALL TABSWITCHES SHOWN IN .ON POSITION.
- 3) SEE PARTS LIST FOR COMPONENT PART NUMBERS.
- 4) ALL KEYSWITCHES SHOWN IN OFF POSITION.

COMPONENTS ARE NUMBERED AS FOLLOWS:  
 RESISTORS FROM R320 TO R363  
 CAPACITORS FROM C180 TO C210  
 DIODES FROM D15 TO D17  
 TRIMMERS FROM VR15 TO VR16  
 TRANSISTORS FROM Q35 TO Q37  
 NUMBERS HIGHER THAN THE ABOVE LISTED REFER TO VARIANTS.

	ITEM 7	CODE SE-186	DATE 25-1-70	REVISION			
OF 8	/ /	U		OF			





# Transicord deluxe

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Accordion Button model.....	" 16-to-18	" 25
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# Transicord deluxe

<u>P I A N O</u>	Model	608: 41 notes, from F to A
<u>B U T T O N</u>	Model	634: 87 Buttons: DENMARK - SWEDEN
<u>B U T T O N</u>	Model	635: 87 Buttons: NORWAY
<u>B U T T O N</u>	Model	636: 87 Buttons: FRANCE - HOLLAND
<u>B U T T O N</u>	Model	638: 87 Buttons: BELGEN Charleroj and Bruxelles

## S P E C I F I C A T I O N S

### 42 REGISTERS and CONTROLS

BASS - CHORDS SECTION: 120 Buttons  
2 rows of Basses  
4 rows of Chords

### TREBLE REGISTERS

FLUTES 16' - 8' - 4' - 2/  
Vibrato On/Off  
Percussion On/Off

ORCHESTRA Clarinet 16' - Clarinet 8' - Piccolo 4'  
Nasard 2 / - Oboe 8' - Trumpet 8' - String 8'  
Vibrato On/Off - Percussion On/Off

SUSTAIN Celesta 8' - Clavicord 8' - Kinura 8'  
Vibrato On/Off

WHA - WHA 16' - 8' - Vibrato On/Off  
Percussion On/Off

General Vibrato Slow/Fast Control Tab

General Percussion Long/Short Control Tab

General Percussion p/f (piano/forte) Control Tab

### BASS - CHORDS SECTION

Basses Soft/Sharp Control Tab  
Chords Soft/Sharp Control Tab  
Bass Sustain On/Off Control Tab  
Chords Sustain On/Off Control Tab  
Bass Chords p/f (piano/forte) Control Tab  
Cancel Tab for Bass and Chords

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# Transicord deluxe

---

## RHYTHMS ON CHORDS SECTION

Drum on Basses Control Register  
Brush on Chords Control Register  
Brush on Basses Control Register  
Drum on Basses and Brush on Chords Control Register  
Drum on Brush on Basses and Brush on Chords Control  
Register  
Cancel Control Register for all Rhythms

Rotating Control for general volume of Basses, Chords and Rhythms

## OTHER GENERAL CONTROLS

General Volume Expression Control by use of the  
Bellows  
Socket for Headphones  
Socbet for Connection of the Slalom Pedal  
Socbet for Connection of the AT R/3 Power Supply Box

Dimensions: cm. 49 x 21 x 40

Weight: kg. 11,5

Finish: Black

# Transicord deluxe

## ADJUSTMENT

### VR.1 - OSCILLATORS TUNING (35) on PA 234 = Tone Generator Board (34) Fig.7

Oscillators tuning is accomplished by the 12 potentiometers marked VR.1. Each potentiometer tunes all the notes of the same name throughout the organ, whichever tabswitch, octave, or keyboard be used. Tuning can be performed in any of the usual ways, such as setting A to the correct pitch by comparison to another instrument, or tuning fork, and then tuning the remaining notes by fifth and fourth, or using one of the many accessories such the "Strobotuner", or by comparison with another correctly tuned instrument or a set of 12 tuning forks.

### VR.2 - VR.6 - FLUTE FILTERS TUNE on PA 264 = Board (19) Fig. 2 - 4 - 11 - 4A

Readjustment should not be necessary unless filter components are replaced; to adjust operate as follows: Connect an A.C. voltmeter or, preferably, an oscilloscope to the output jack of the organ, or, alternatively, to the speaker terminals of the power amplifier. Using only one flute tabswitch at a time and using only the even footages (16', 8', 4') play the note G<sup>#</sup> whose frequency is the one indicated beside the filter interested in the schematic diagram, and turn the corresponding adjusting trimmer for maximum output, or cleanest waveform on the oscilloscope.

### VR.10 - VR.11 - VIBRATO ADJ. on PA 268 Board (33) Fig. 6 - 6A

This adjustment is very critical and should be performed only if absolutely necessary. Operate as follows: Set the three Vibrato tabswitches in the "ON" position, and play a chord in the central octave of the Keyboard with 8', 4' and Vibrato Tabs with the U.M. flute family included. Set VR.11 in its approximate central position, and turn VR.10 very slowly until some modulation is heard. At this point reduce modulation depth via VR.11 at the minimum which can be heard, and readjust VR.10 for the cleanest modulation. Eventually repeat until no further improvement is obtained, always operating on VR.10 very slowly, since this adjustment is very critical, and correct in a very narrow tolerance. Now increase modulation depth via VR.11 up to the maximum clean modulation which can be obtained, just before "popping" occurs.

### VR.15 - BASS SOFT FILTER ADJ. on PA 265 = Board (32) Fig. 6 - 6A

Readjustment should not be necessary unless filter components are replaced; to adjust operate as follows; Connect an A.C. voltmeter or, preferably, an oscilloscope to the output jack of the organ, or, alternatively to the speaker terminals of the power amplifier. Play "G" on the bass section and turn VR.15 for maximum output, or cleanest waveform on the oscilloscope.

# Transicord deluxe

## VR.16 - BASS SHARP FILTER ADJUSTMENT on PA 265 = Board (32) Fig. 6 - 6A

This trimmer controls the timbre when using "BASS SHARP" tabswitch, and can be set upon customer preference. Factory tuning is done centering the corresponding filter on 400 Hz.

## VR.20 - BRUSH LEVEL ADJ. on PA 268 = Board (33) Fig. 6 - 6A

Using "BASS SOFT", "CHORD SOFT", "DRUM BASS" and "BRUSH CHORDS" tabswitches, and alternating between a bass note and a chord note on the bass section, adjust VR.20 for adequate balance of the rhythm section.

## VR.21 - DRUM LENGTH ADJ. on PA 268 = Board (33) Fig. 6 - 6A

Put "BASS CANCEL" and "DRUM BASS" and "BRUSH CHORDS" tabswitches on and hitting repeatedly a note on the Bass section, adjust VR.21 for adequate length of the note heard, just below the position above which the note becomes boomy.

## VR.22 - SWELL BELLOW MINIMUM LEVEL ADJ. on PA 265 = Board (32) Fig. 6 - 6A

Depending upon customer preference adjust this control for required level at completely closed bellow. Instrument is factory adjusted with VR.22 at the center of its rotation.

## VR.23 - + 5,6 VOLT ADJ. "ANTICLICK" on PA 265 = Board (32) Fig. 6 - 6A

Adjust for proper voltage on + 5,6 test point (pin 15 of PA 265) using an ART 3 power supply whose operation and adjustment is known to be correct, or the customer's own unit.

# Transicord deluxe

## HOW TO OPEN THE INSTRUMENT FOR SERVICE ACCESS

(Any work inside the organ shall be performed by specialized technicians)

1. To open the instrument as shown in fig. 1.2.3.4.5.6.7.8. and to remove the Treble & Bass Case:

- 1.1 - Unloose the eight screws (11 in Fig.1.4.16) and remove both Treble (1) and Bass Case (2).
- 1.2 - Disconnect the Expression and WhaWha connector (44/24 in Fig.2.3.4.8.9) and Wiring connectors (22/23 in Fig.2.3.4)

Note! When removing the Treble & Bass Case the instrument may still be played and circuitry checked, provided that all Duo-Tyne connectors (22/23)&(44/24) are properly connected.

If Duo-Tyne connectors need be removed you may only play the Keyboard.

Operations # 1 allow reaching the components or performing adjustments as follows:

- a) Tuning Trimmers VR 1 (35 in Fig.7) located on Tone generator boards PA 234.
- b) Printed Circuit boards PA 261 and PA 261-1 and their treble Sustain modules PA 260 (38-39 in Fig.8.12).
- c) Printed Circuit board PA 263-1 (18 in Fig.2.4.10)
- d) Printed Circuit board PA 264 (19 in Fig.2.4.11)
- e) Flute Filters adjust. VR 3. VR 4. VR 5. VR 6 (Fig. 2.4.10.11)
- f) Printed Circuit board PA 266 (13 in Fig.2.4.13)
- g) Printed Circuit board PA 267 (17 in Fig.2.4.14)
- h) Printed Circuit board PA 271 (21 in Fig.2.4.15)
- i) Bass Case Wiring Duo-Tyne connectors (22/23 in Fig.2.3.4)
- l) Expression and Wha-Wha device (16 in Fig.2.3)
- m) Expression and Wha-Wha device connector (44/24 in Fig.2.3.4.8.9)
- n) Printed Circuit board PA 261-2 with Sustain modules PA 260-1 and PA 260-2 (25-26 in Fig.3.12)
- o) Printed Circuit board PA 275 or PA 288 or PA 289 (27 in Fig.3)
- p) Bellows Fastener (15 in Fig.2.3)
- q) Bellows (13 in Fig.1.3.16)

2. To open the instrument as shown in Fig.5 (separation of Treble & Bass Case not needed)

- 2.1 - Unloose both Grille holding screws (10 in Fig.1) to reach:

- a) Register Tabs (4 in Fig.1.2.5.6.16)
- b) Power octal socket (7 in Fig.1.5.6.16)
- c) Headphone Jack (8 in Fig.1.5.6.16)
- d) Slalom Jack (9 in Fig.1.5.6.16)

# Transicord deluxe

## 3. To open the instrument as shown in Fig. 6.6A

- 3.1 - Unloose both Grille holding screws (10 in Fig.1)
- 3.2 - Unloose the tab metal frame holding screws (30 in Fig.5)
- 3.3 - Tilt the tab metal frame (29 in Fig.5.6)

Operations #3 allow reaching components or performing adjustments as follows:

- a) Tabswitch Board (4 in Fig.1.2.5.6.6A.16)
- b) Power octal socket (7 in Fig.1.5.6.16)
- c) Headphone Jack (8 in Fig.1.5.6.16)
- d) Slalom Jack (9 in Fig.1.5.6.16)
- e) Printed Circuit board PA 265 (32 in Fig.6.6A)
- f) Bass Filters adjust. VR 15, VR 16 (Fig.6.6A)
- g) Output Level adjust. VR 22
- h) Anticlick adjust. VR 23
- i) Printed Circuit board PA 268 (33 in Fig.6.6A)
- l) Vibrato Bias adjust. VR 10
- m) Vibrato Depth adjust. VR 11
- n) Brush Level adjust. VR 20
- o) Drum Level adjust. VR 21

## 4. To open the instrument as shown in Fig. 8.9.17.18

(separation of Treble & Bass Case not needed)

### 4.1 - Remove Treble Case back cover (37 in Fig.7) to reach:

- a) Treble Keyswitches (48)
- b) Contact Actuator balance springs (49)
- c) Lowerside of the Treble contact board PA 229 or PA 287 (46 in Fig.9.17.18)

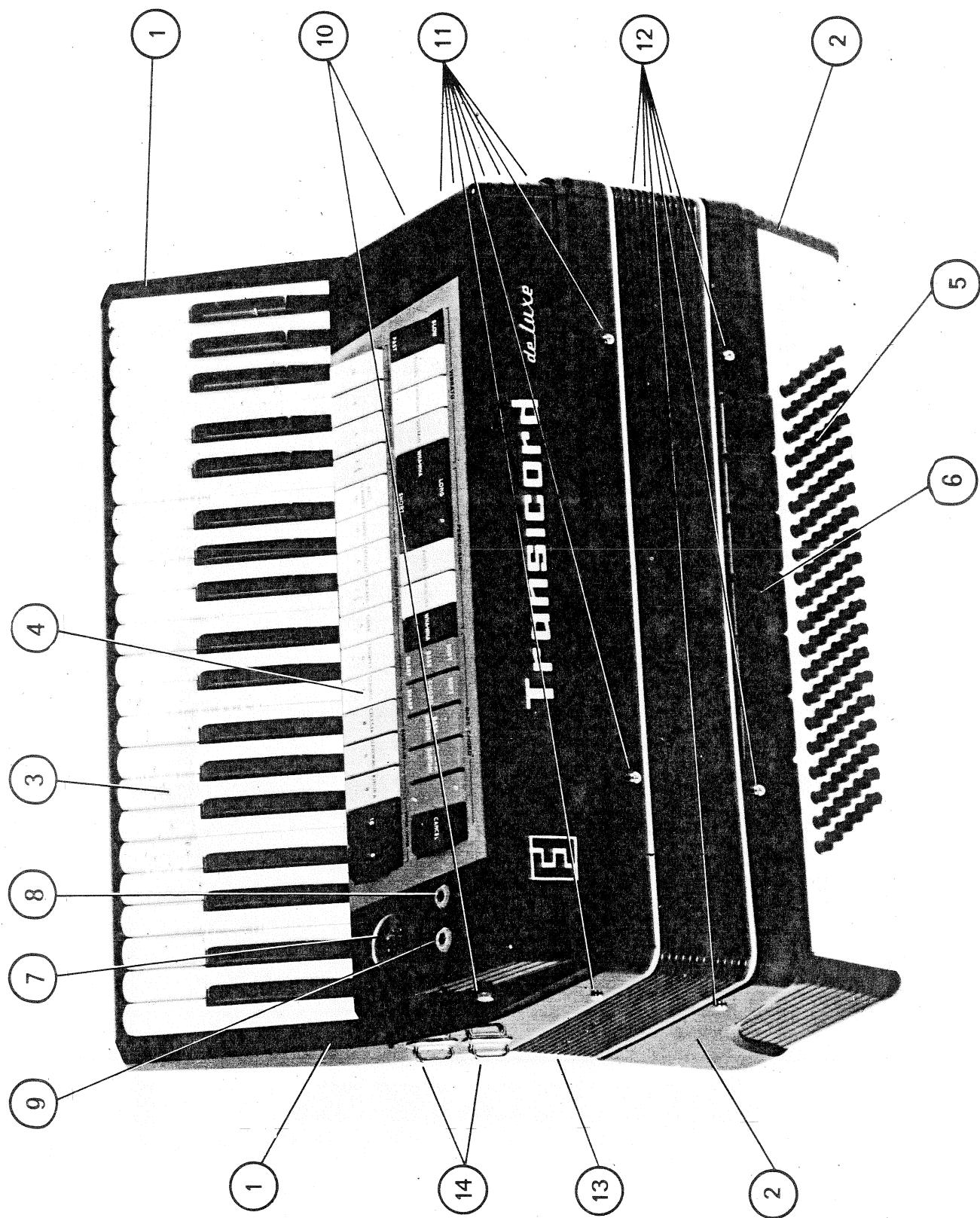
### 4.2 - Remove screws (42) holding the Treble Keyswitch metal frame (41) and tilt the same to reach:

- a) Printed Circuit board PA 229 or PA 287 (46)
- b) I.C. Dividers (47)
- c) Key's or Button's Lever (45)

# Transicord deluxe

FIG. 1

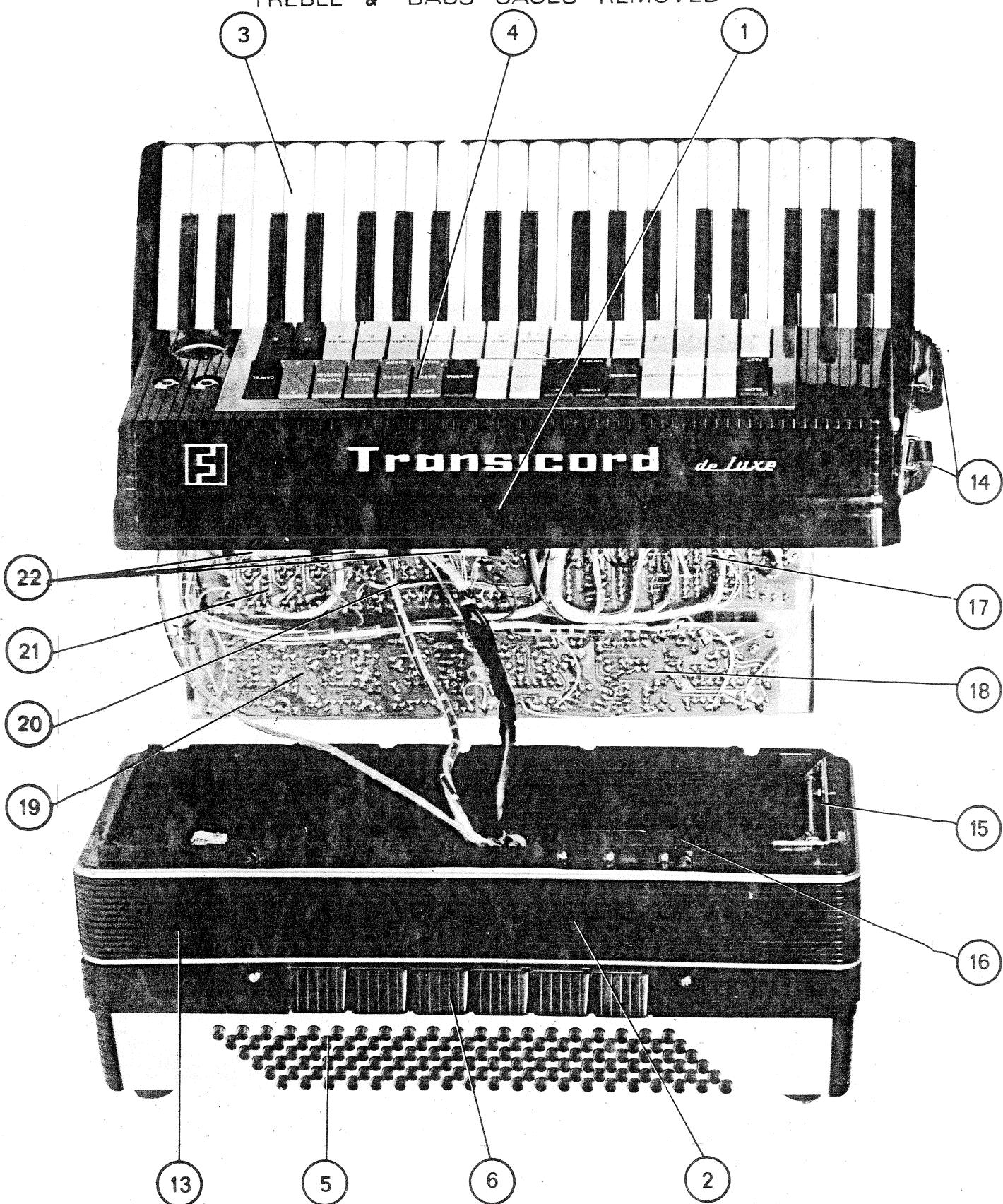
FRONT VIEW



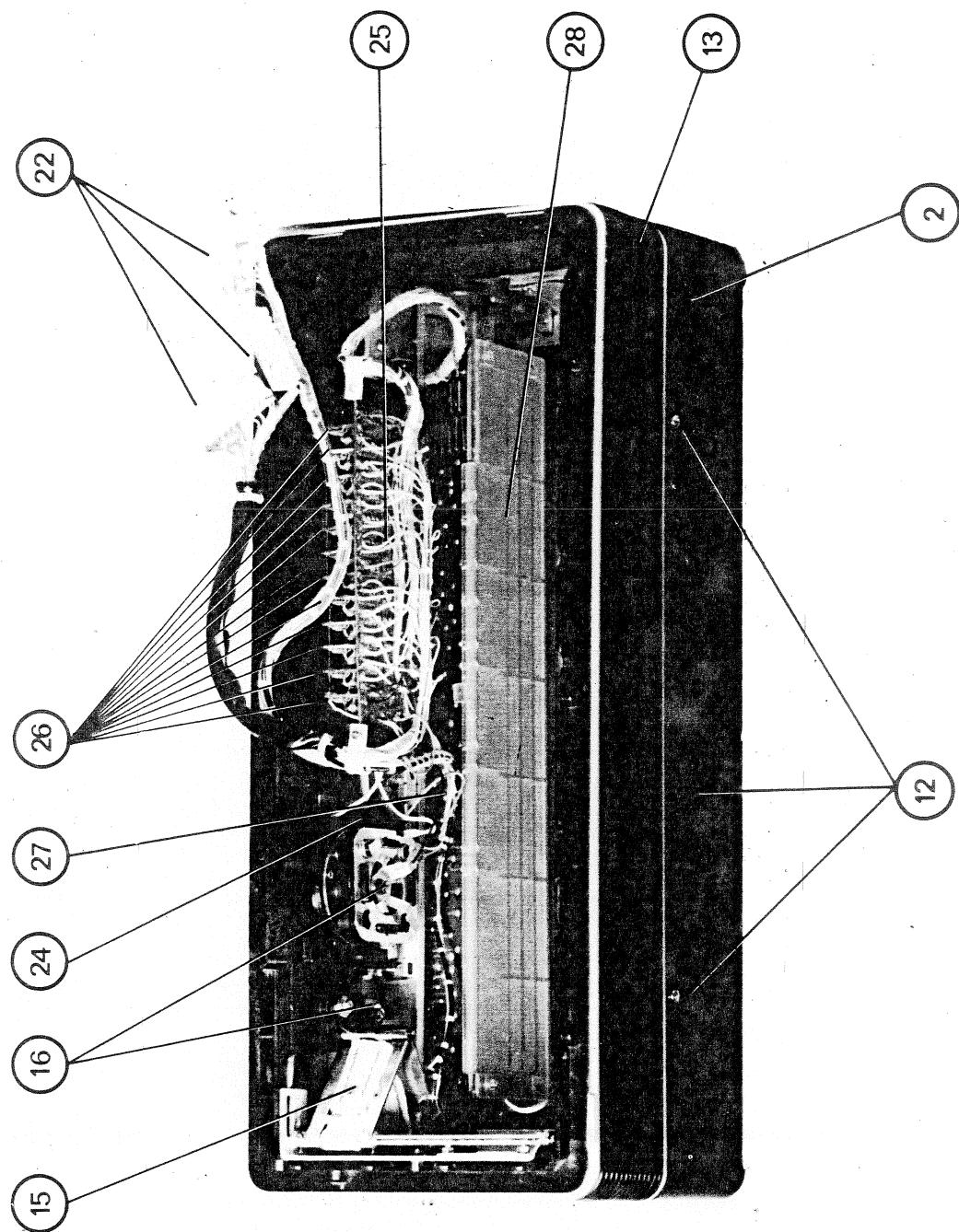
# Transicord deluxe

FIG. 2

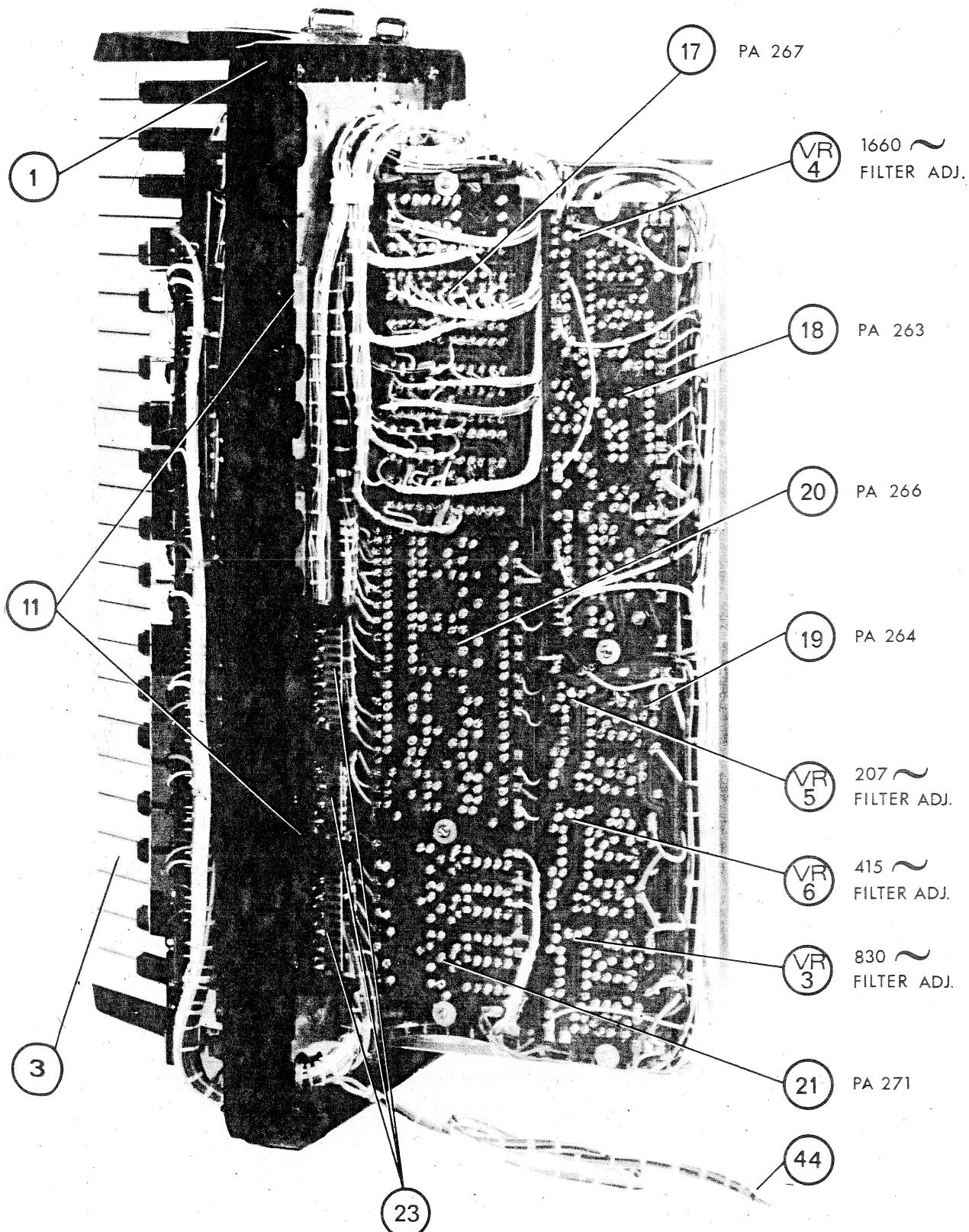
TREBLE & BASS CASES REMOVED



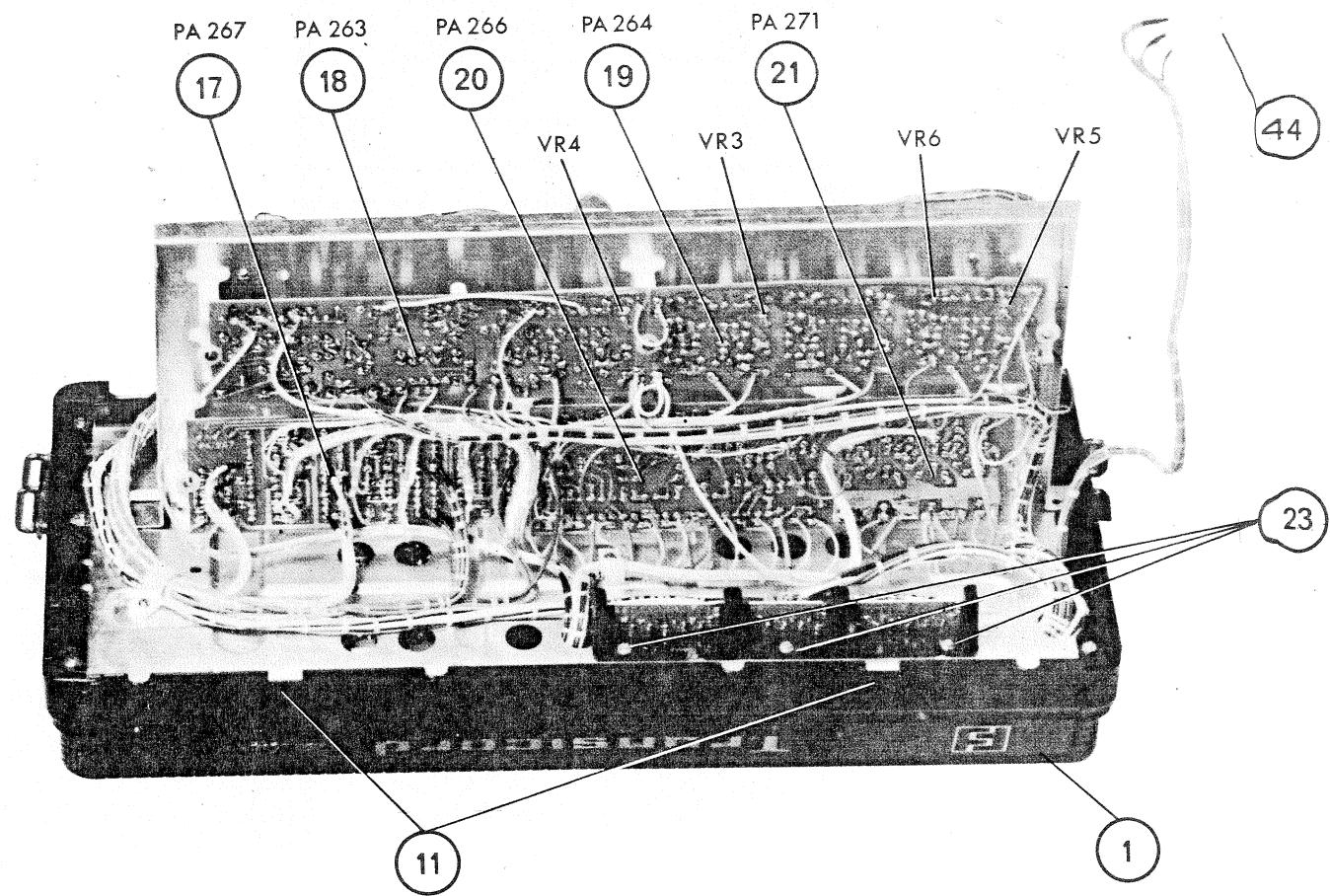
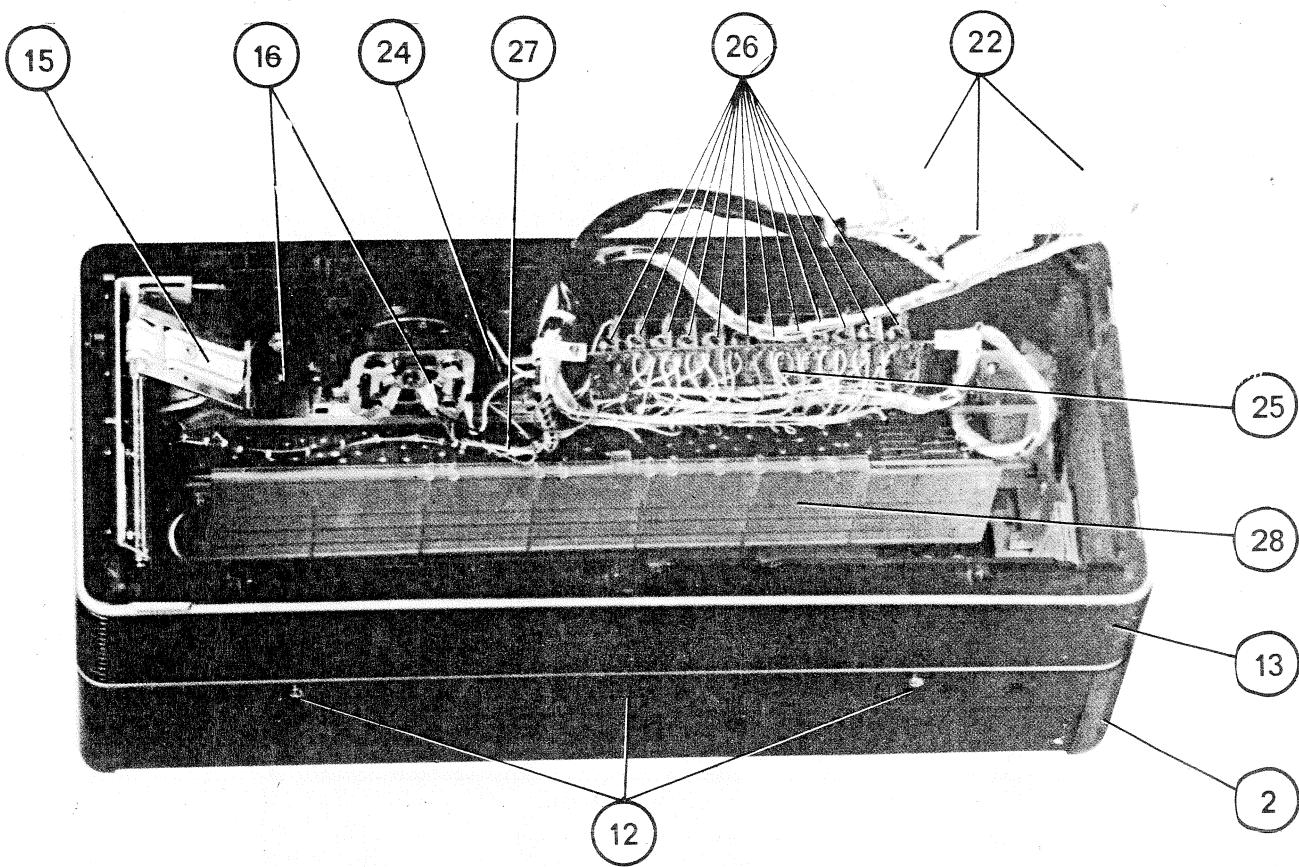
BASS CASE ( Inside view )



## TREBLE CASE (Top view)

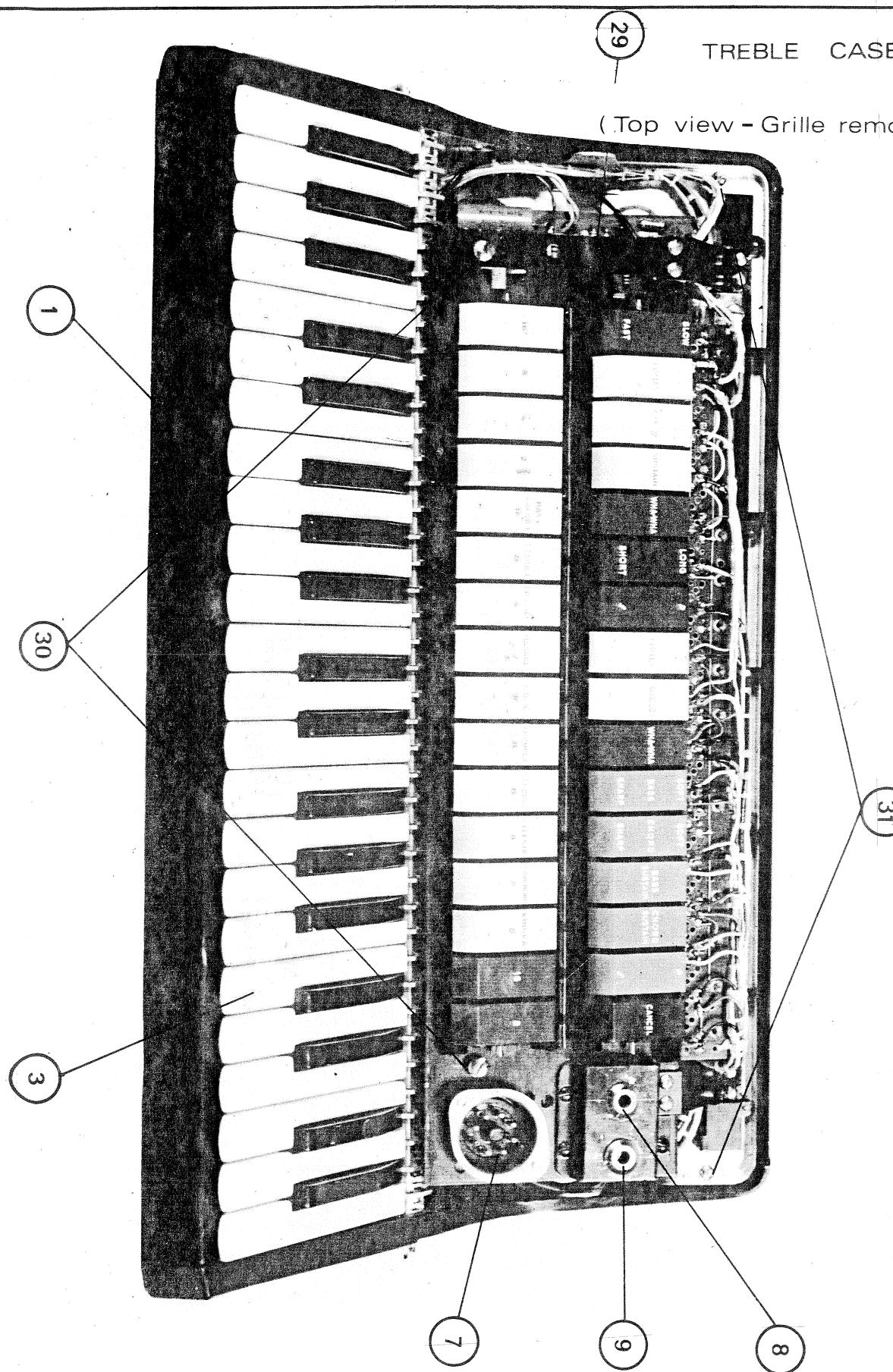


BASS & TREBLE CASES



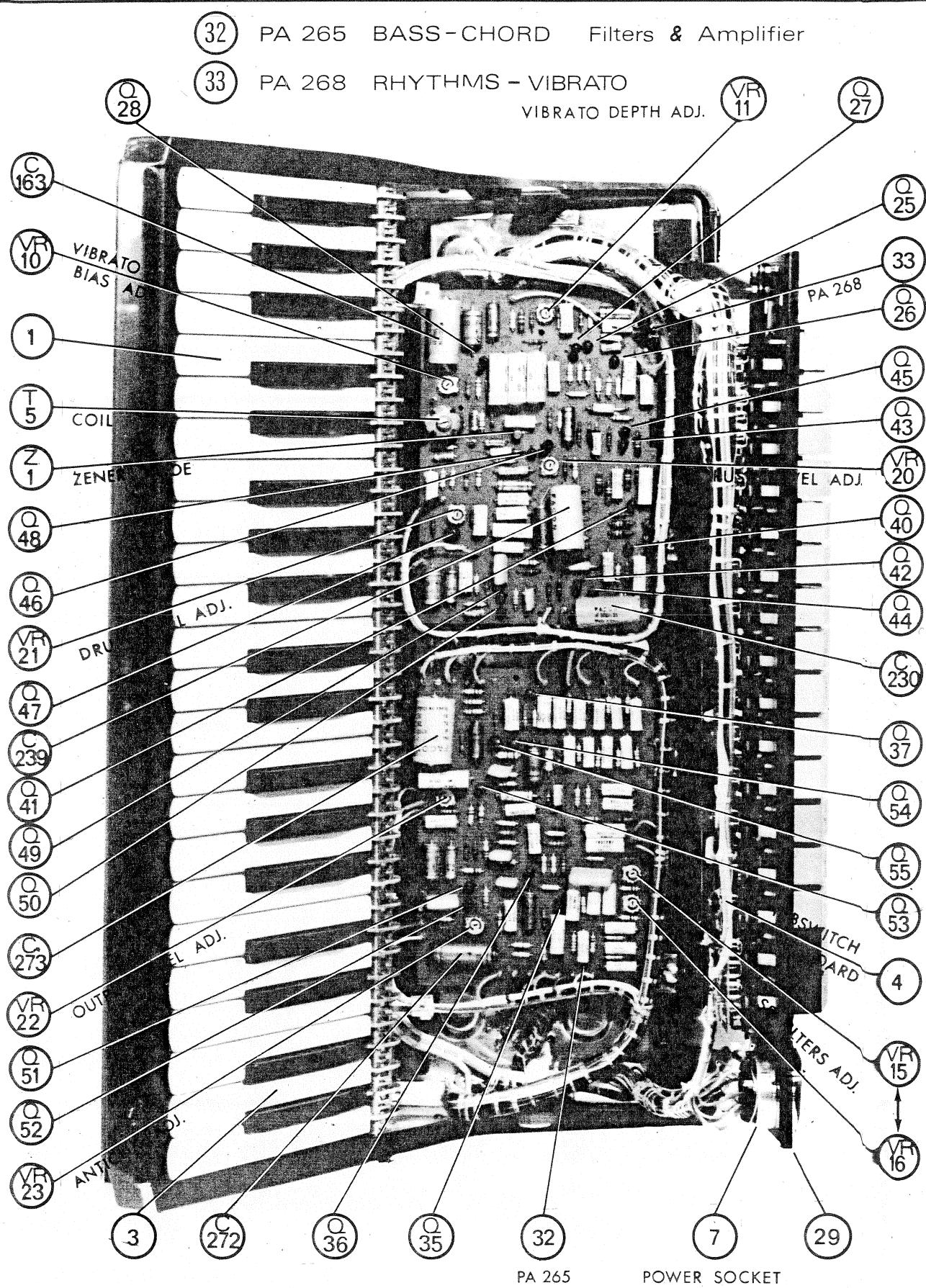
# Transicord deluxe

FIG. 5



# Transicord deluxe

FIG. 6

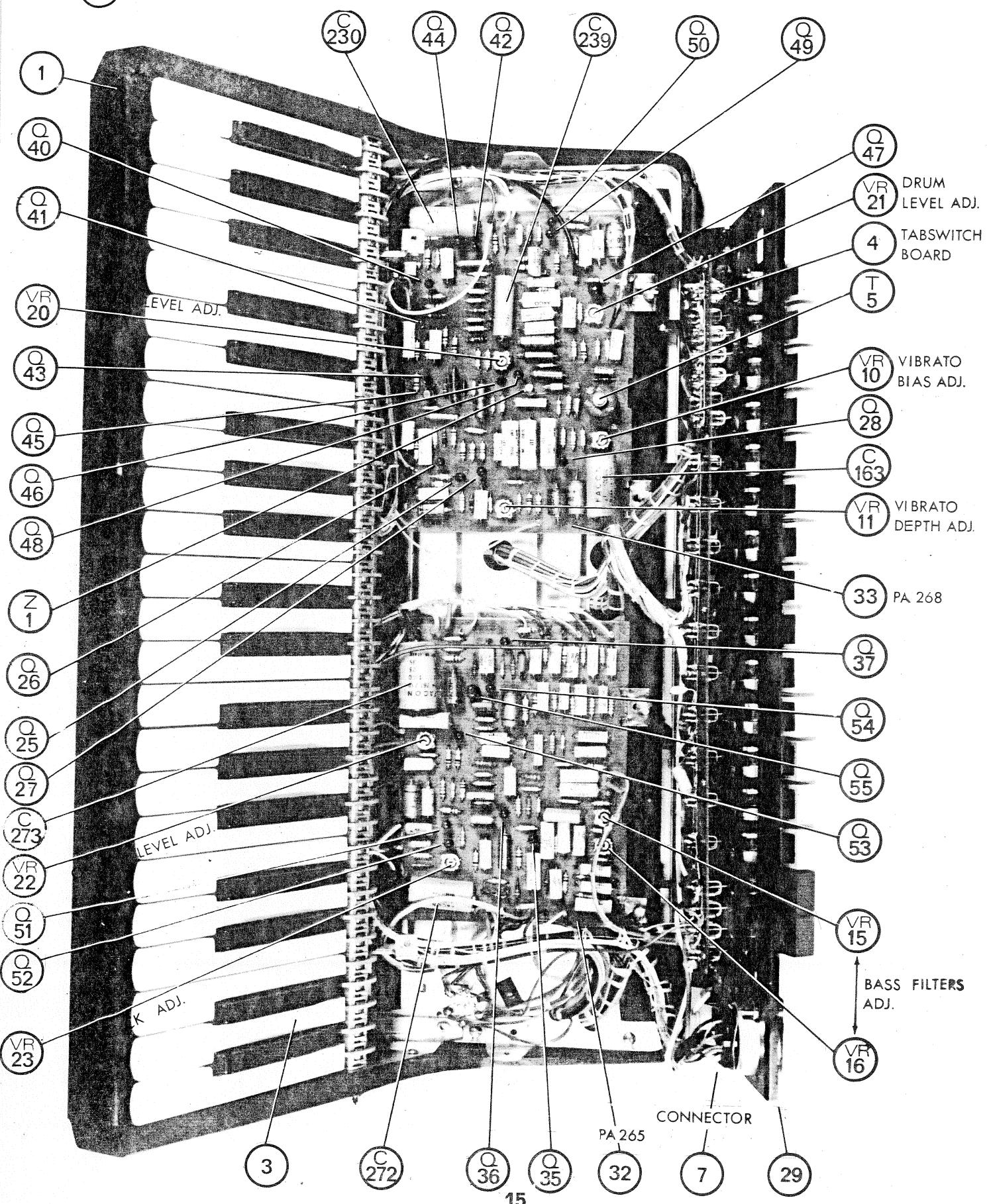


# Transicord deluxe (only for Serial No A/6114)

FIG. 6A

(33)  
(32)

PA 268 = RHYTHMS & VIBRATO  
PA 265 = BASS - CHORD FILTERS & AMPLIFIERS

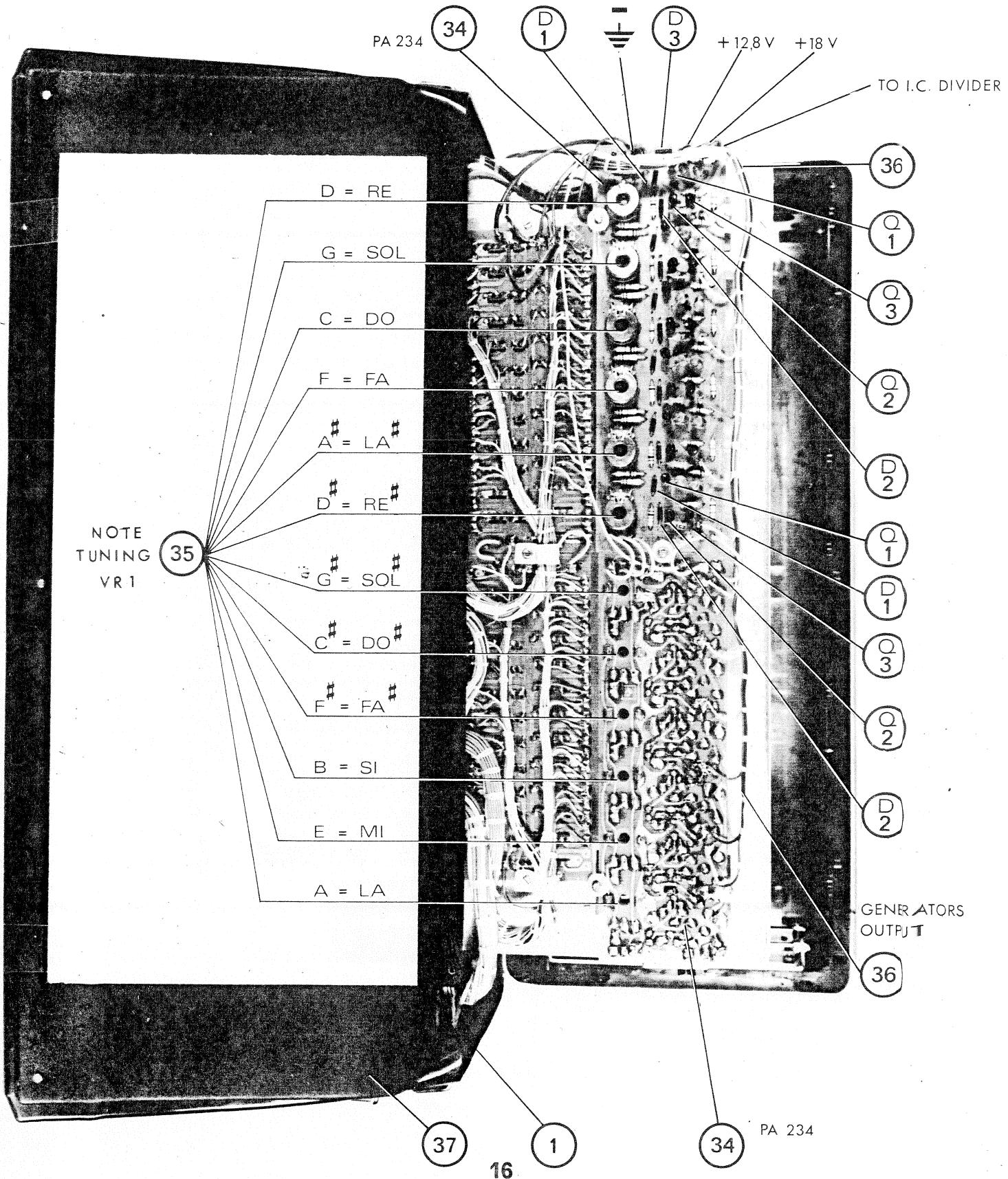


# Transicord deluxe

FIG. 7

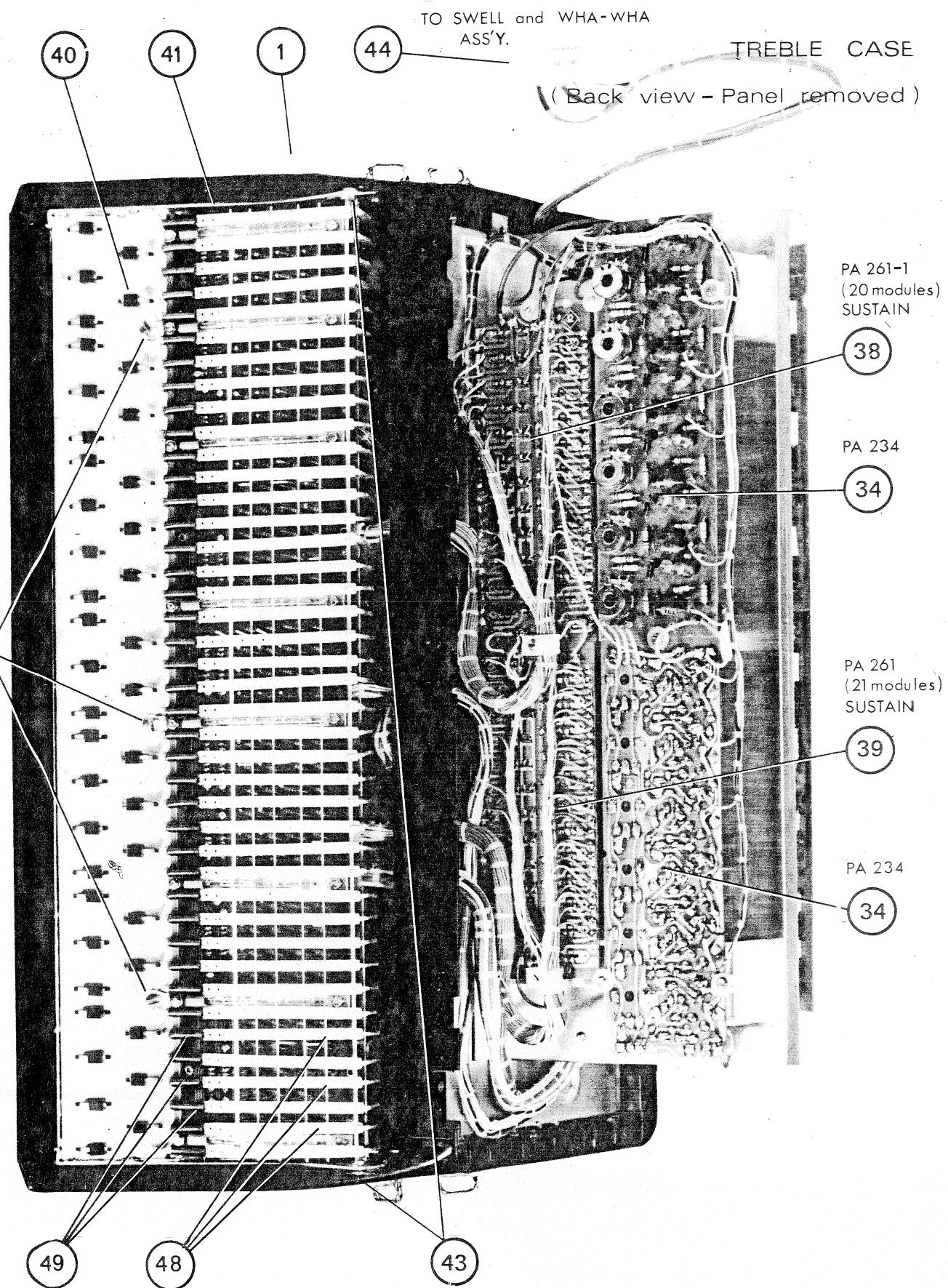
### TREBLE CASS ( Back view )

34 PA 234 - Generator Boards



# Transicord deluxe

FIG. 8

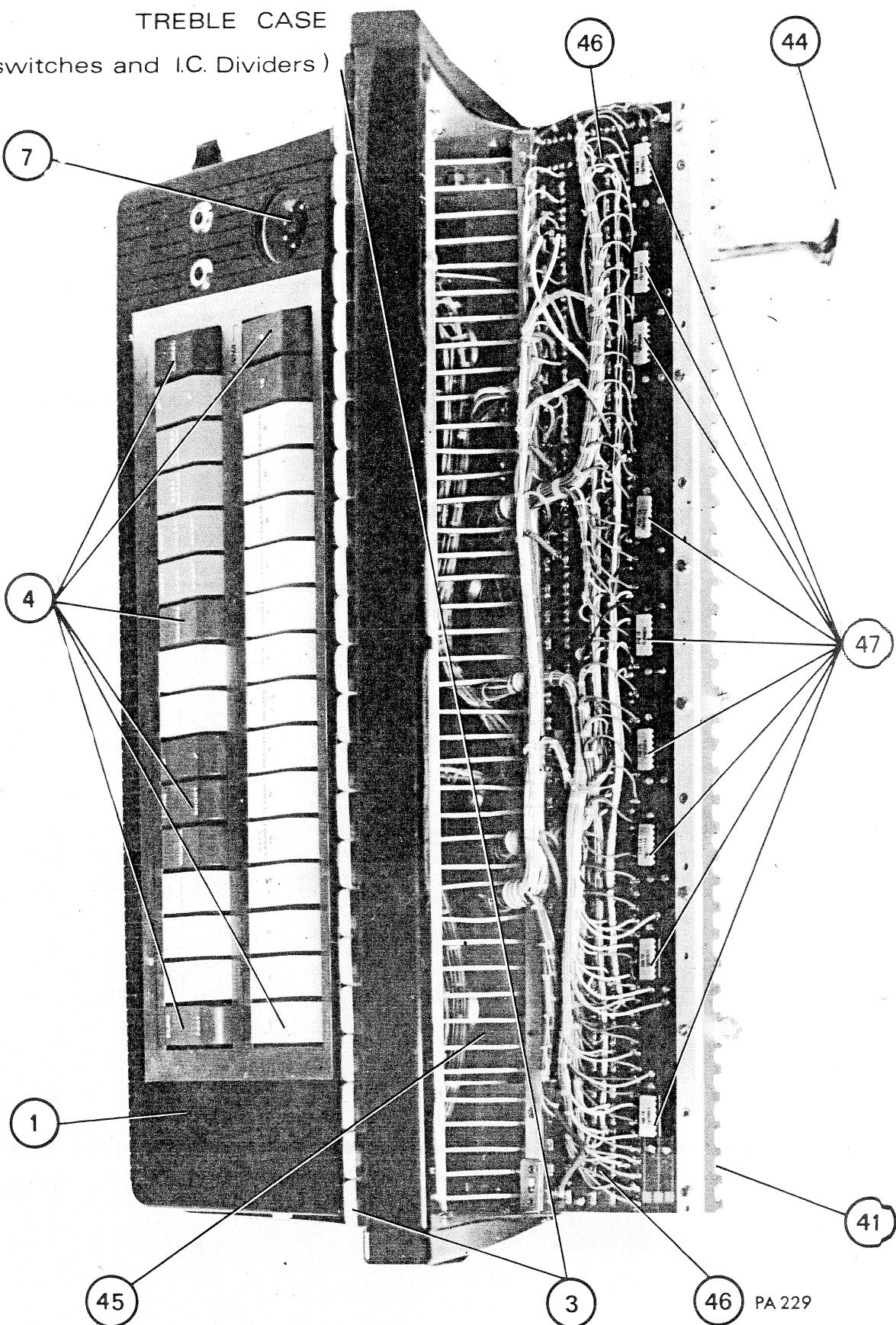


# Transicord deluxe

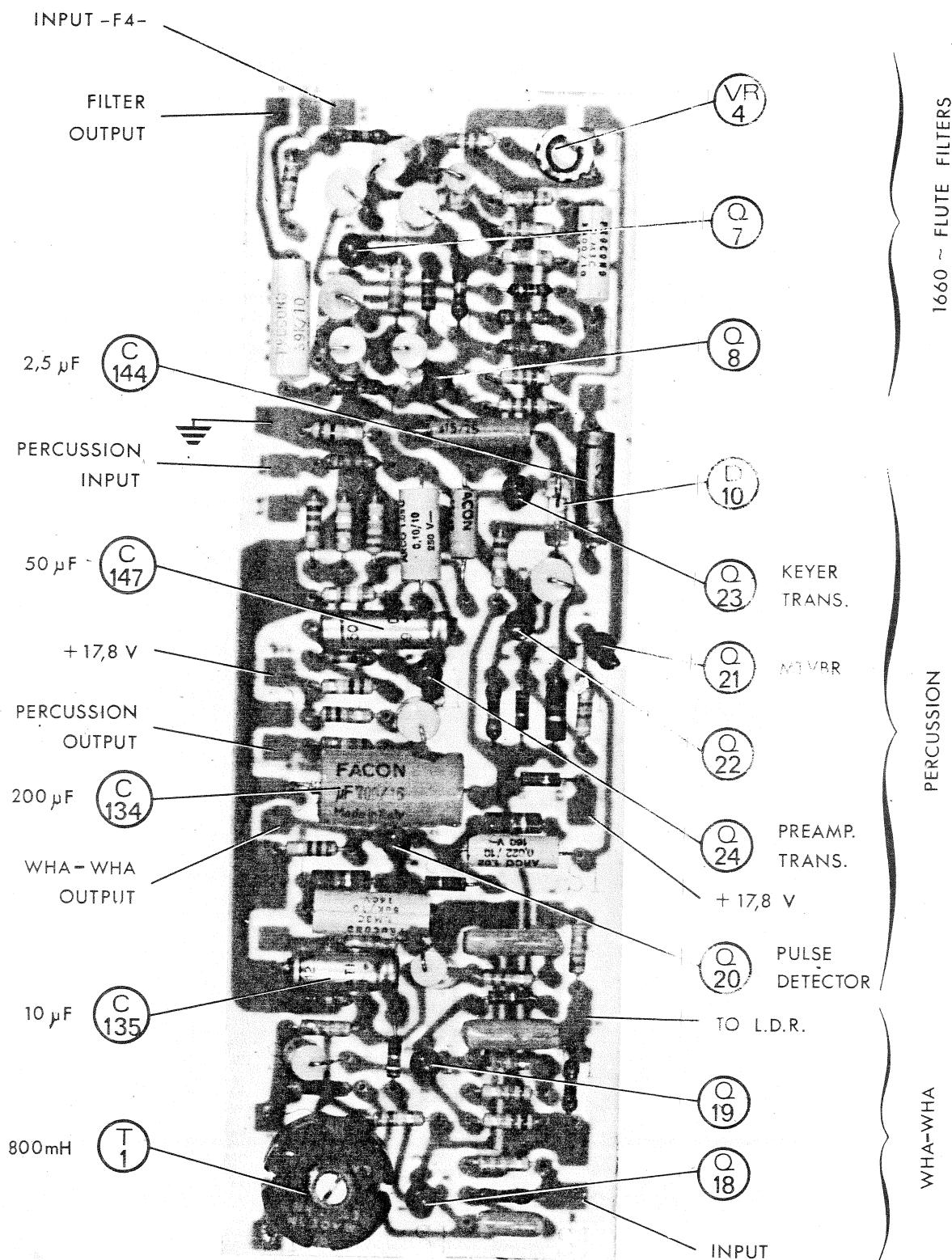
FIG. 9

## TREBLE CASE

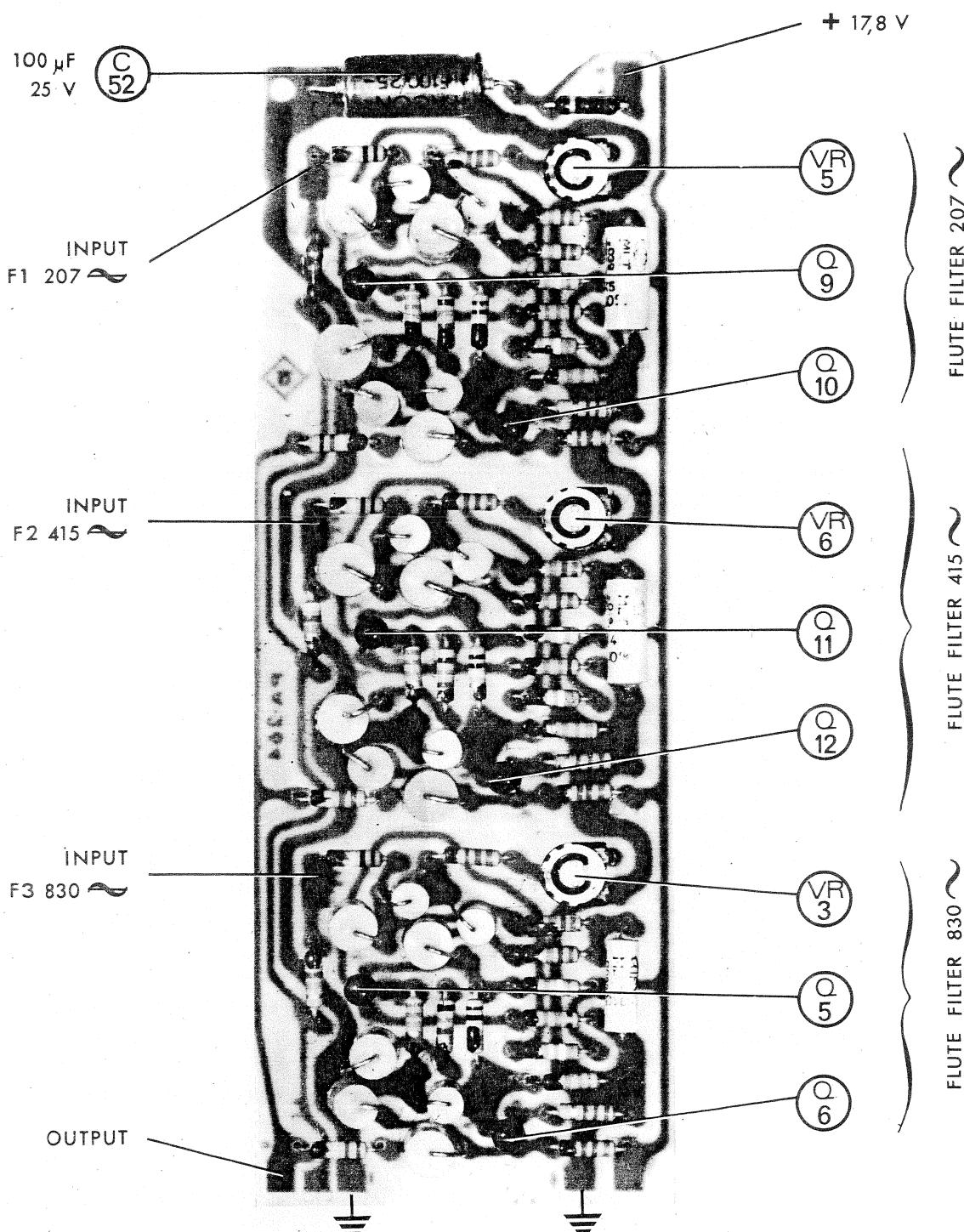
( Keyswitches and I.C. Dividers )



FLUTE FILTER - PERCUSSION - WHA WHA = PA 263-1 (18)



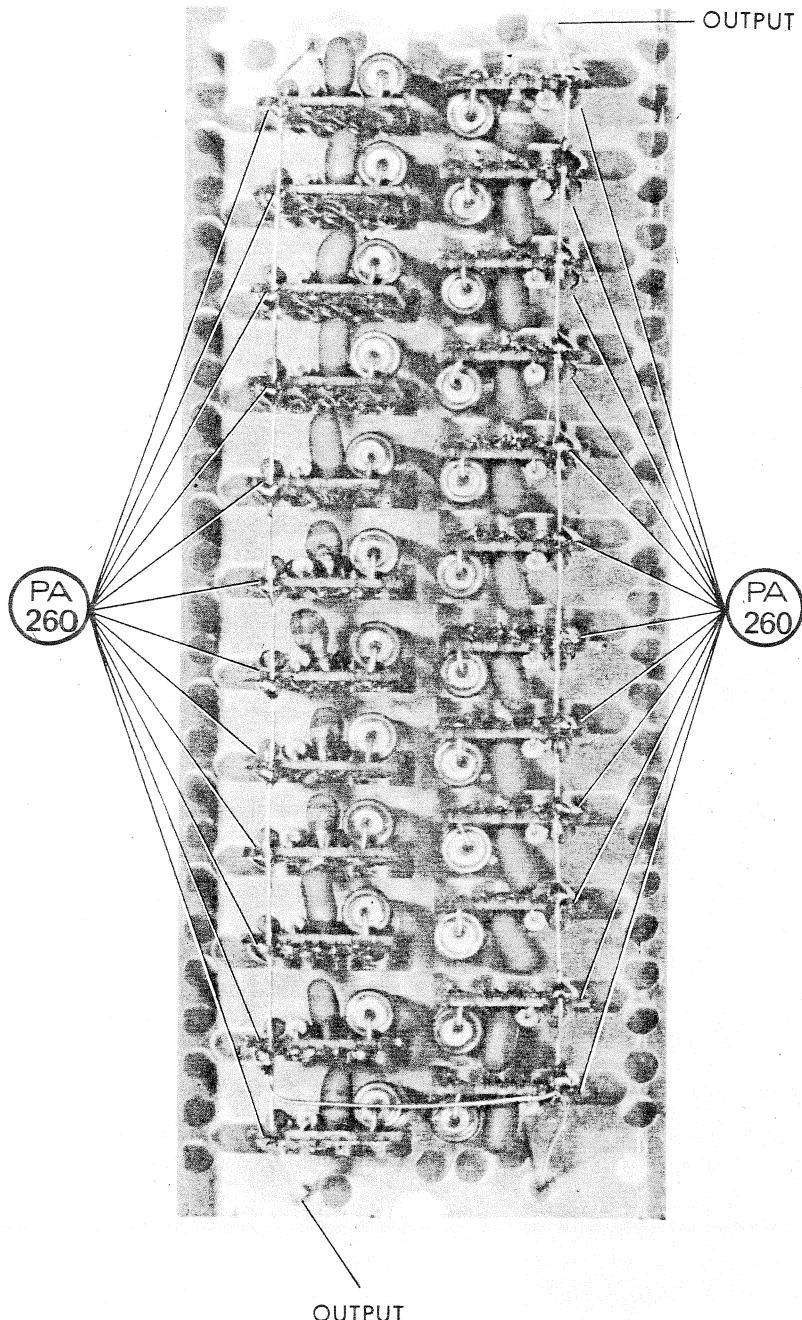
PA 264 = FLUTE FILTERS



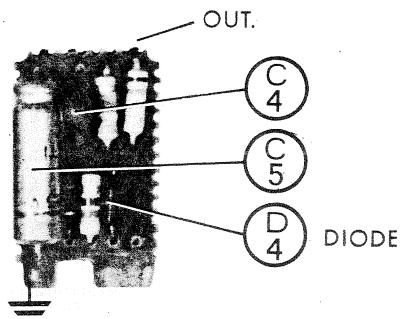
- 39 PA 261 : TREBLE SUSTAIN
- 38 PA 261-1 : TREBLE SUSTAIN
- 25 PA 261-2 : BASS CHORDS SUSTAIN

- white 21 PA 260 = TREBLE SUSTAIN MODULES
- white 20 PA 260 = " " " "
- white 12 PA 260-1 = BASS " " "
- white 12 PA 260-2 = CHORD " "

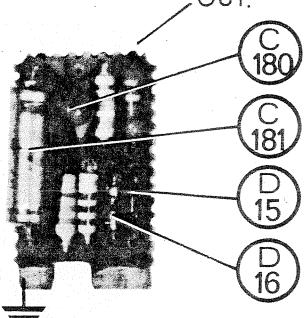
PA 261: SUSTAIN BOARD BASE



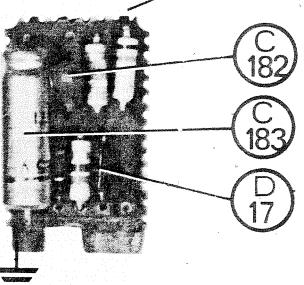
PA 260: TREBLE SUSTAIN MODULE



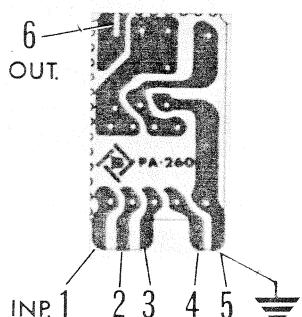
PA 260-1: BASS SUSTAIN MODULE



PA 260-2: CHORD SUSTAIN MODULE

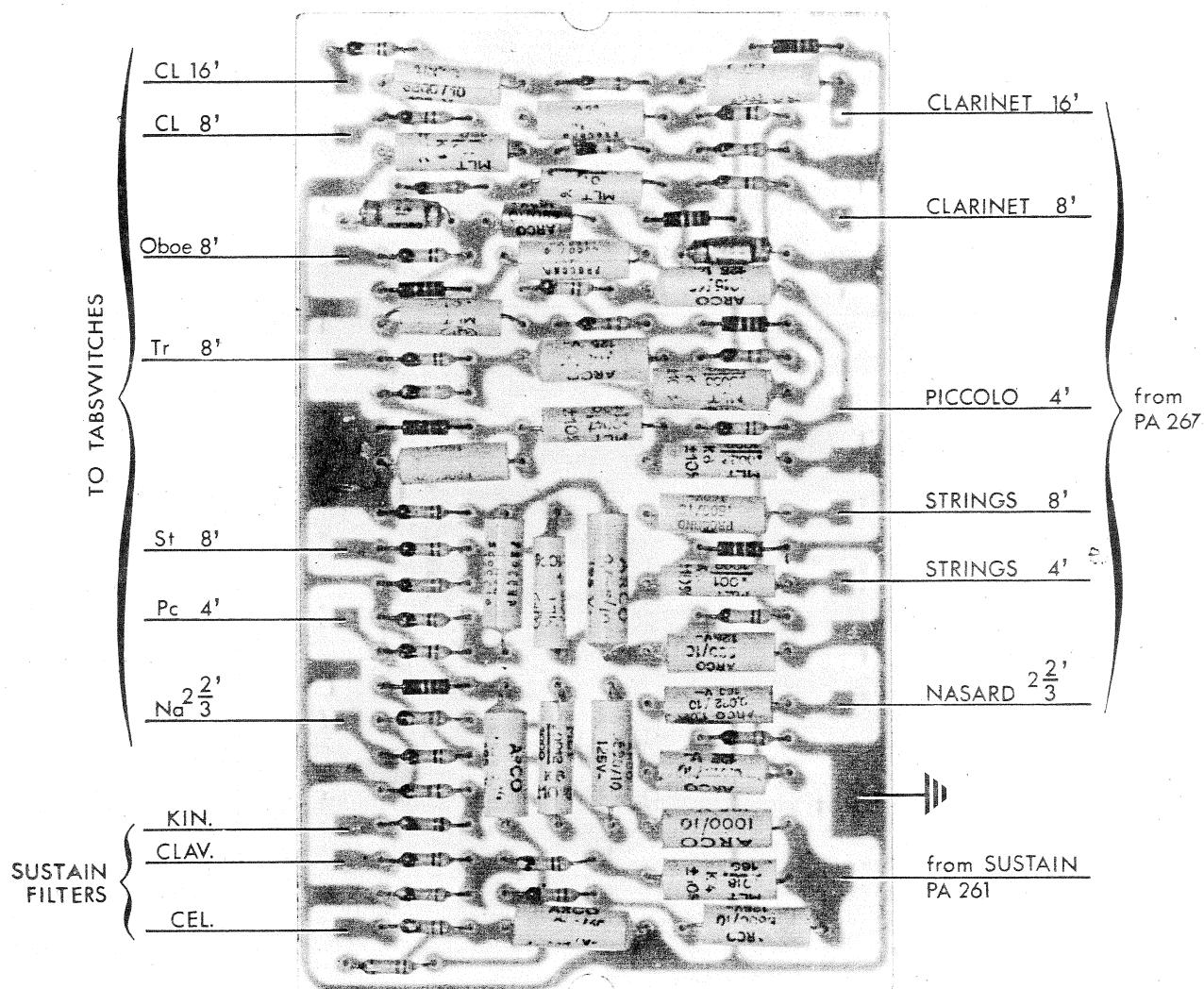


PA 260: PRINTED CIRCUIT BOARD



20

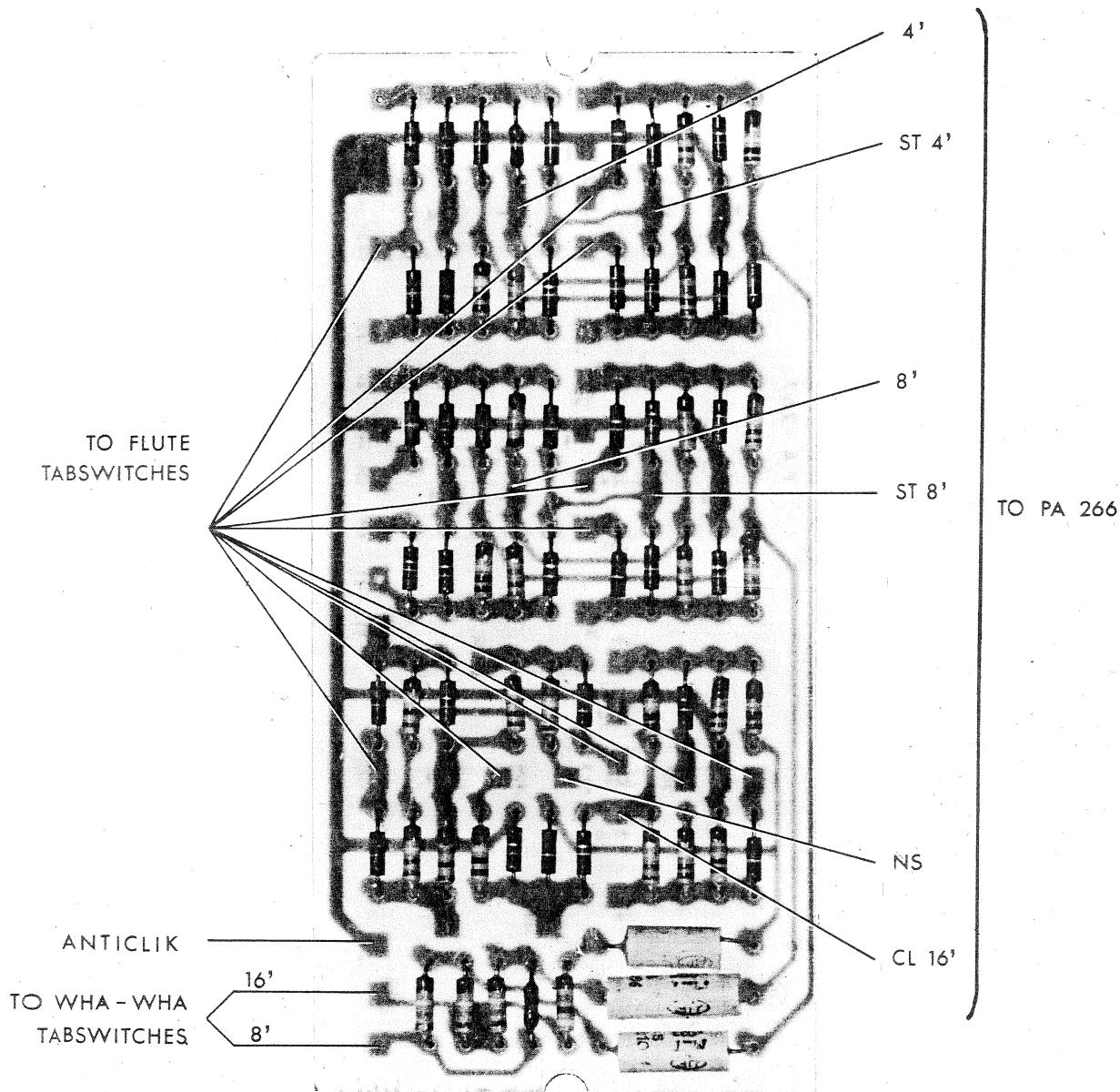
PA 266 SUSTAIN - ORCHESTRA FILTERS BOARD---



(17)

PA 267

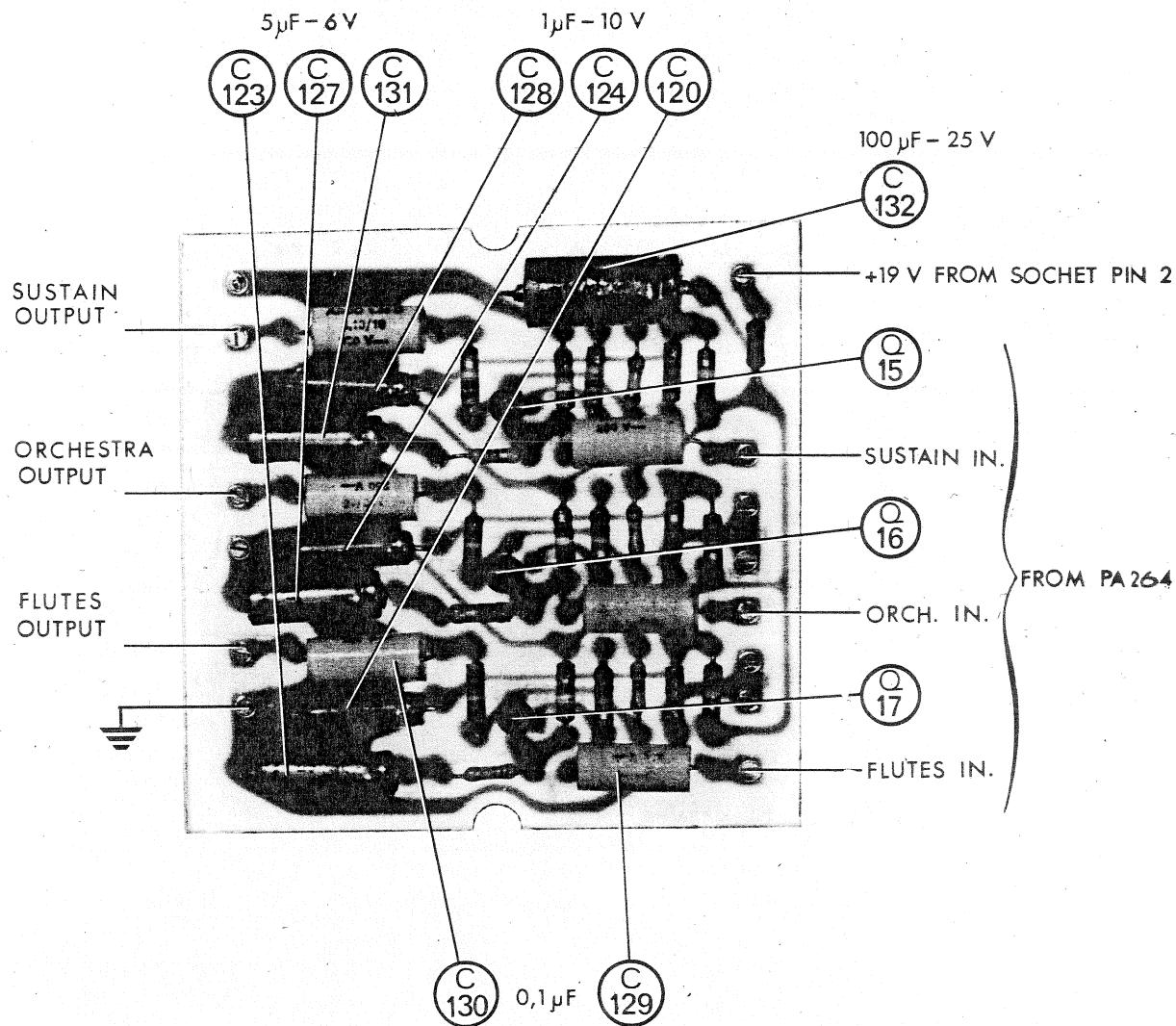
SWITCHING BOARD

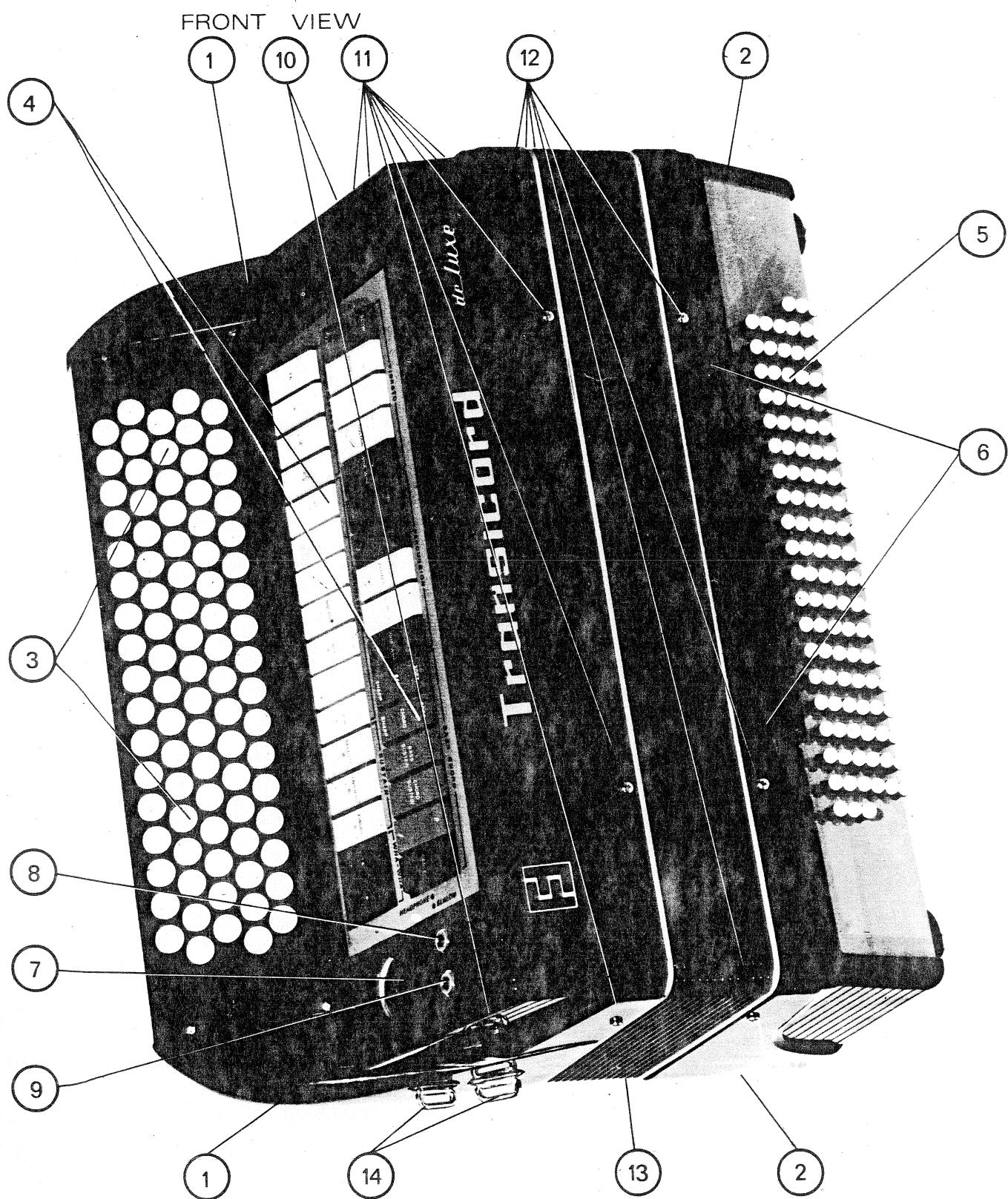


Points listed below are connected to PA 229/a

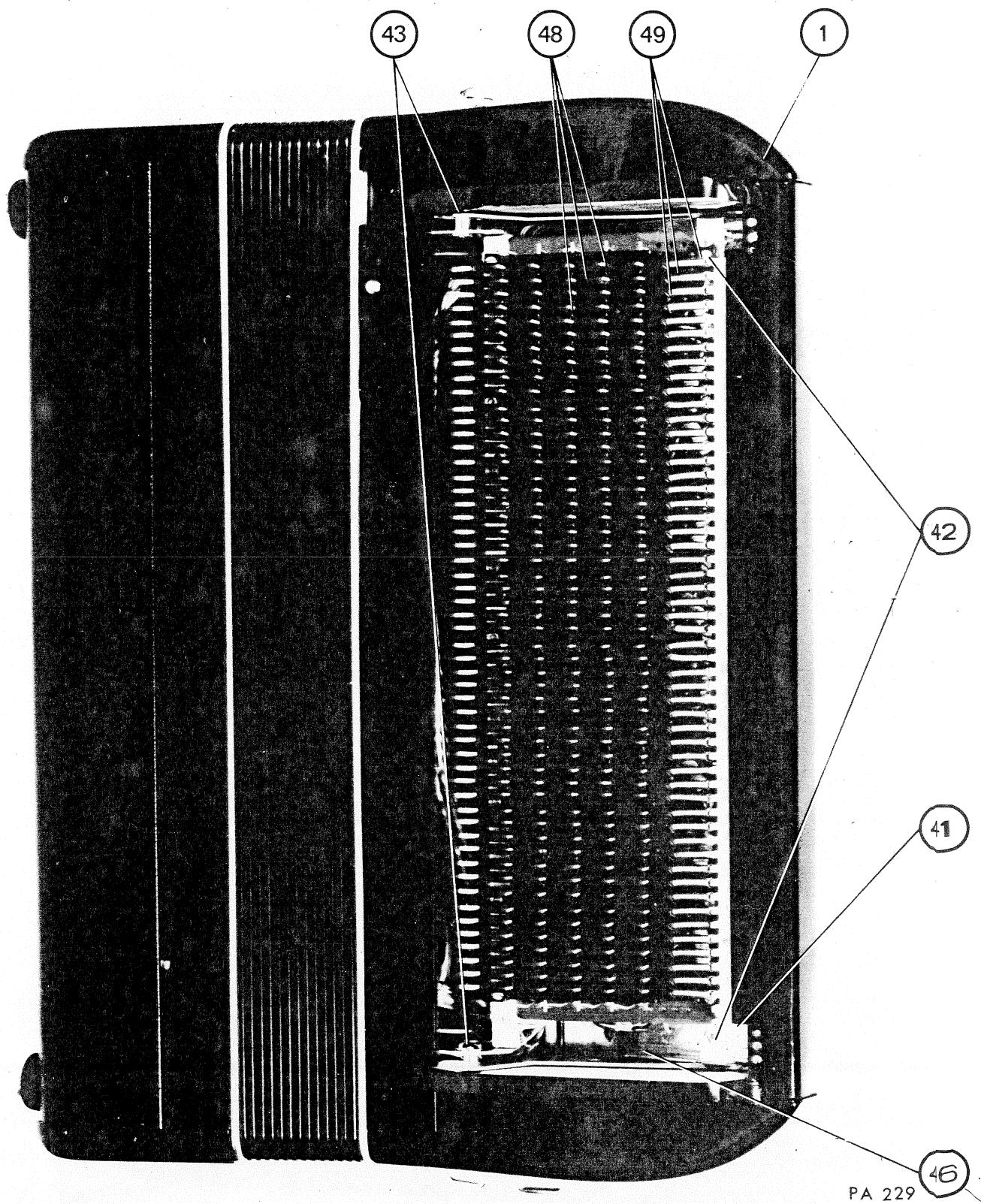
21 · 22 · 23  
 41 · 42 · 43 · 44  
 81 · 82 · 83 · 84  
 161 · 162 · 163

21 PA 271: SUSTAIN, ORCHESTRA & FLUTES PREAMPLIFIER BOARD





BACK VIEW (Treble case - Panel removed)



# Transicord deluxe

Button model

FIG. 18

BACK VIEW ( Panel removed )

46 PA 229 - KEYSWITCHES BOARD and I.C. DIVIDERS EXPOSED

42

46 PA 229

45

41

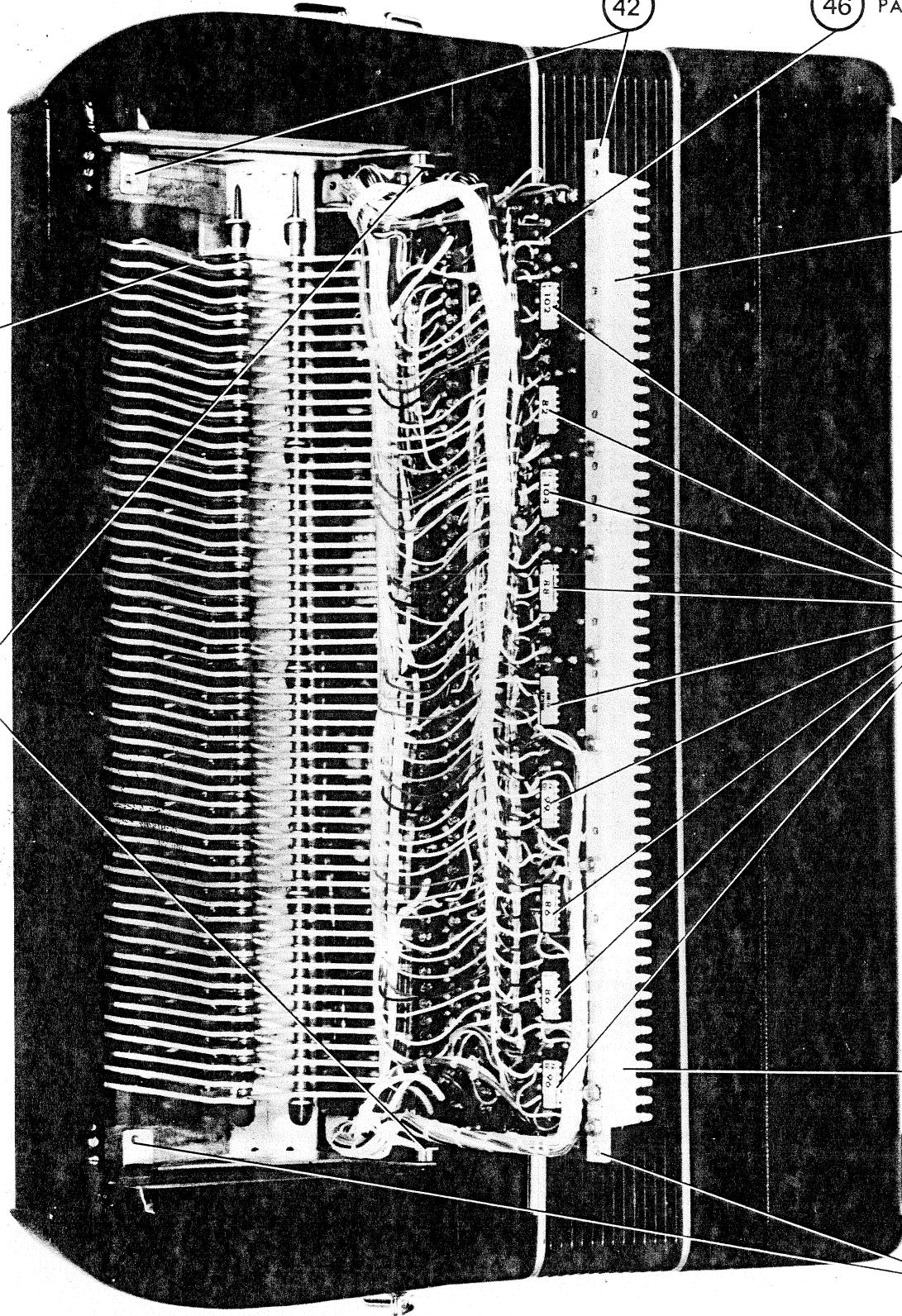
43

47

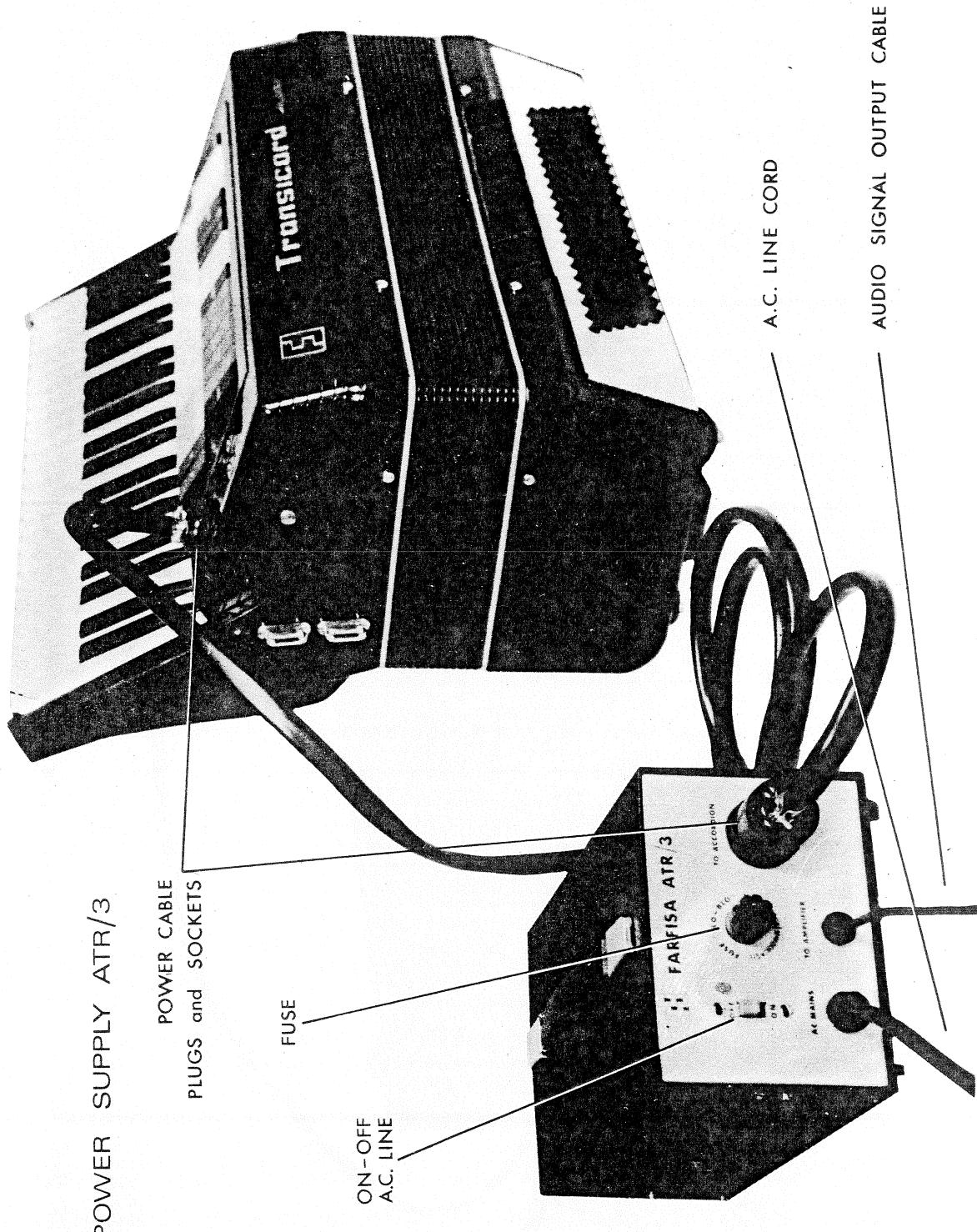
I.C. 1+9  
DIVIDERS

41

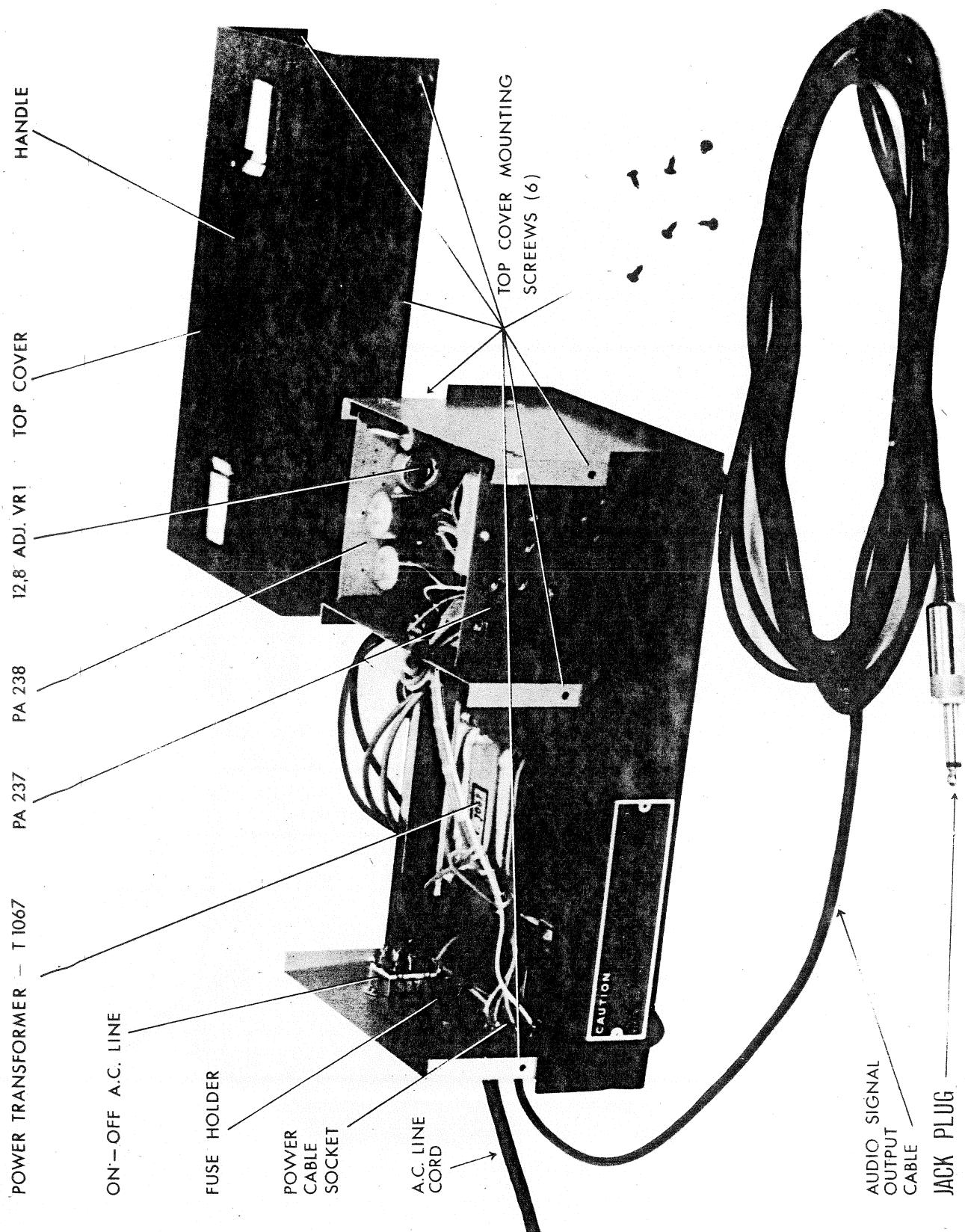
42



FRONT VIEW

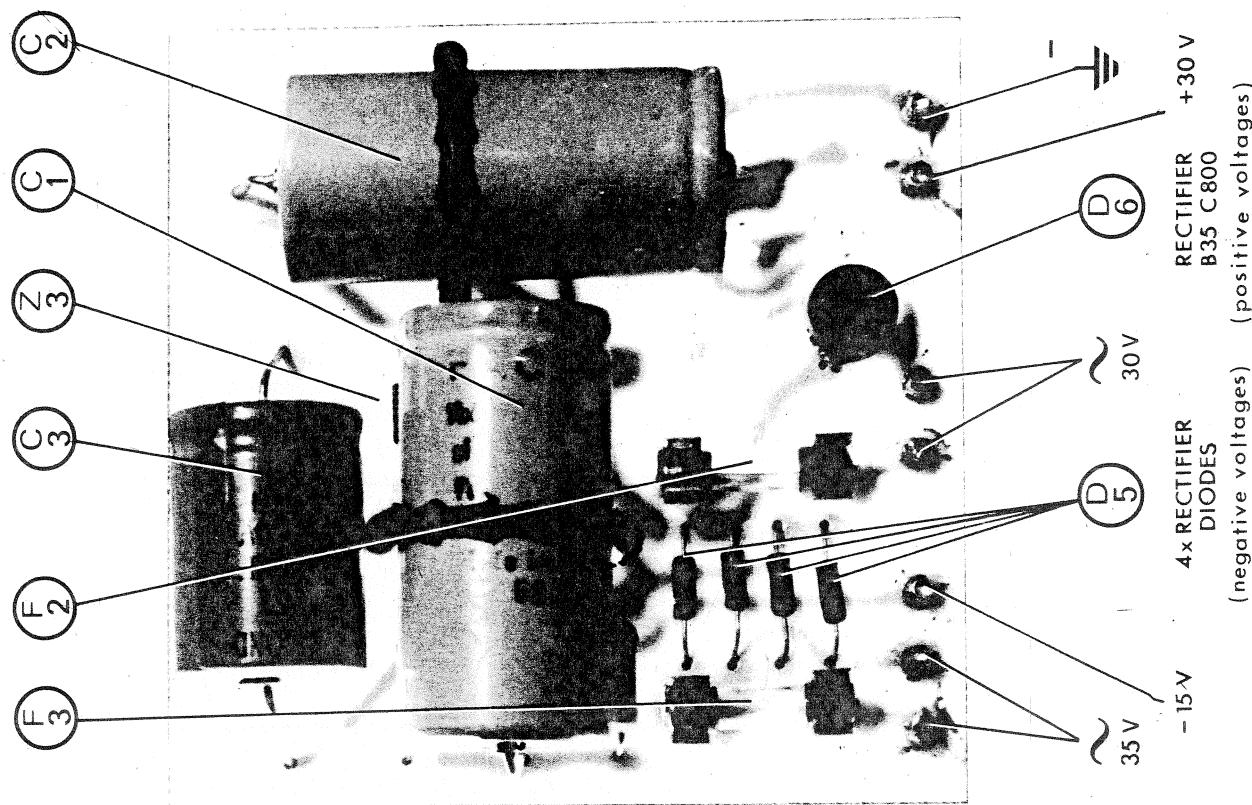


SIDE VIEW (cover removed)

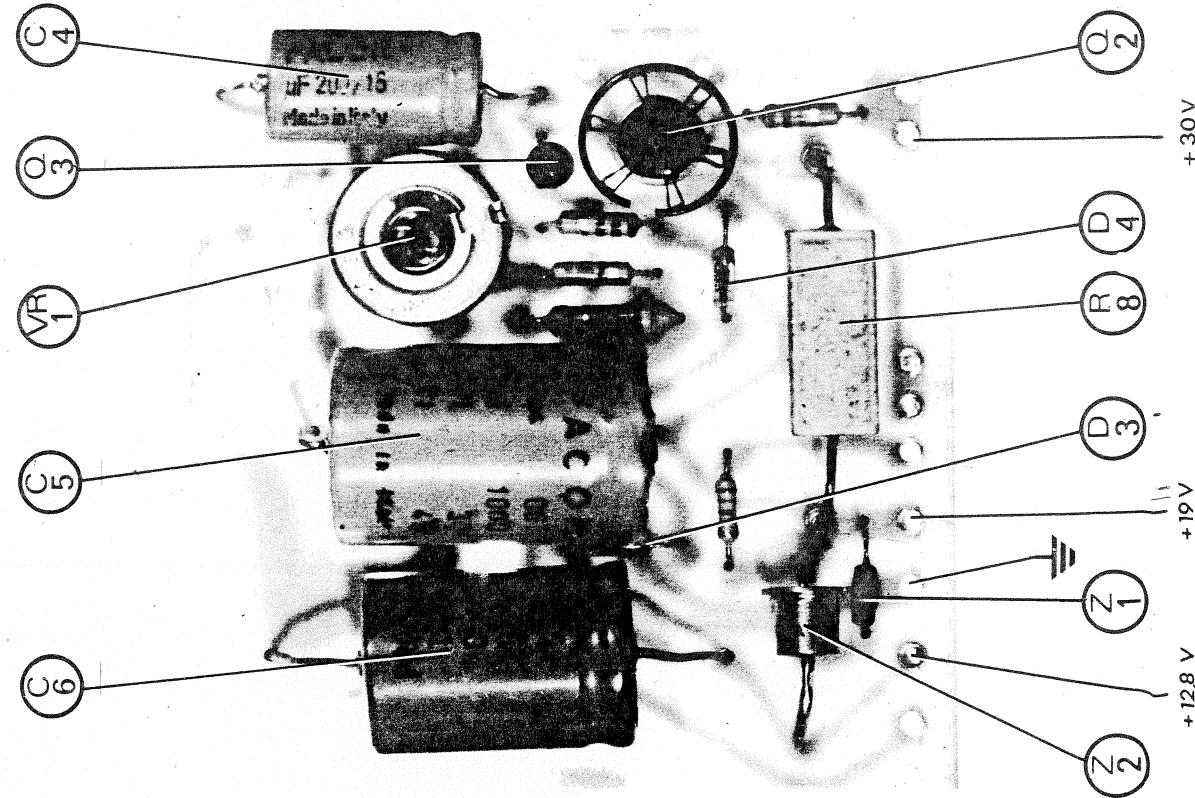


PA 237-2 RECTIFIER BOARD

( FUSES FOR EUROPE ONLY )



PA 238 REGULATOR BOARD



# Transicord deluxe

## P A R T S   I N F O R M A T I O N

### STANDARD PARTS

Replacements for all standard electronic parts and hardware can be purchased directly from local suppliers generally in less time than would be required to obtain them from the factory.

### SPECIAL PARTS

In addition to the standard replacement parts, special electronic parts and mechanical parts are also used. These parts are manufactured by and to the specifications of the factory. Order these parts directly from the factory since they would be difficult or impossible to obtain from other sources.

### PARTS ORDERING INFORMATION

When ordering parts be sure to include the following information:

1. Model and Serial Number.
2. Part Code
3. A description of the Part.
4. Specify how you want the part shipped.

Most special electronic parts and mechanical parts will have a part number stamped on them. In the event that the part number is missing, or you are unable to read the part number, a complete description of the part and where it is used will allow the factory to fill your parts order.

When parts are ordered in the proper manner the factory is able to fill your orders promptly, delays that might result are avoided.

## P A R T S   L I S T

THE PARTS LIST contains the following information:

1. Name of Part.
2. Brief Description.
3. Where the Part is found (figure, number).
4. Schematic reference.
5. PART CODE.

The parts list includes all standard stock replacement parts. No attempt has been made to include every nut, bolt, screw, resistor, and capacitor.

If the necessity for a non-listed part arises, please write describing the parts location and function as well as model and serial number of the unit.

**IMPORTANT !** In any correspondance concerning this instrument **ALWAYS** INCLUDE MODEL AND SERIAL NUMBERS.

# Transicord deluxe

## S E R V I C E   N O T E

Beginning from serial N° A/6117 the following modifications have been introduced:

- 1) Headphone jack (item 8 in fig. 1.5.6.16) has been deleted, and in its place a separate Bass output has been introduced, to allow separate amplification for the treble and bass sections.
- 2) Inside the treble section of the instrument, supported by the tabswitches metal chassis (item 29 in fig. 5.6) a new board "Bass output amplifier" has been added. This board amplifies the signal for the above mentioned "Bass output" jack (item 8)
- 3) The following items have been added to the "Transistors & diodes list":

Schem. Ref.	Circuit	Drawing Ref.	Type	Part Code
PA 333	<u>BASS OUTPUT AMPLIFIER</u> board ( DWG 8 - SE/100 )			
Q 60	Input Preamp.....	BC 109 B or C red dot...	W 143 - 148	
Q 61	Output Amplifier NPN.....	BC 209 B or C red dot...	W 145 - 150	
Q 62	Output Amplifier PNP.....	SGS BC 116.....		W 80

\* MISTRAL

# Transicord deluxe

## PARTS LIST

Part	Description	(No) & Fig.	Part Code	Part Code
			PIANO MODEL	BUTTON MODELS
<u>TREBLE CASE ASSEMBLY</u>		(1) Fig. 1-2-16-17	*3000/608	*3000/634
Straps	Shoulder Straps .....		MASFI/57	MASFI/57
Holder	Shoulder Straps Holder .....		PT/7-C	PT/7-C
Plate	Shoulder Straps Holder Plate .....		PS/121-C	PS/121-C
Grille	Complete Grille .....		*2010/608	*2010/634
Strip	Front Strip, complete, plastic .....		FI/267	FI/267
Strip	Back Strip, complete, plastic .....		FI/266	FI/266
Panel	Right cheek block .....		CZ/52	*2501/634
Panel	Left cheek block .....		CZ/51	*2502/634
Panel	Right side panel - Button models only .....		.....	FI/291
Panel	Left side panel - Button models only .....		.....	FI/292
Cover	Treble Case back panel .....		DO/40	DO/41
<u>TREBLE KEYSWITCH ASSEMBLY</u> (for PIANO model only)	(3) 1-2-5-6		*3100/608	
Keys	Octave, Natural, C through B -White	(3) 1-2-5	*TS/156/162-B	
Keys	Top A - White .....		*TS/165-B	
Keys	Sharp - Black .....		*TS/37-N	
Actuator	Keyswitch, plastic .....	(48) 8	PS/990	
Bar	470 mm .....		BR/288	
Spring	Key contact .....		ML/176	
Spring	Natural Keys balance .....	(49) 8	ML/221	
Spring	Sharp Keys balance .....	" "	ML/222	
<u>TREBLE KEYSWITCH ASSEMBLY</u> (for BUTTON models only)	(3) 16-17		.....	*3100/634
Button	Treble, White, with felt ring ...	(3) 16	.....	*BT/76
Button	Treble, Black, with felt ring ...	(3) 16	.....	*BT/77
Felt	Ring-felt, under button .....		.....	GZ/383
Stem	Plastic, under Button .....		.....	GM/45
Levers	Button, long size, 1st & 4th row	18	.....	*LV/358/361
Levers	Button, med.size, 2nd & 5th row	18	.....	*LV/359/362
Lever	Button, med.size, 2nd row, single type	18	.....	*LV/359/S
Lever	Button, short size, 3rd row .....	18	.....	*LV/360
Lever	Button, cut type, 4th row only	18	.....	*LV/363
Spacer	Lever spacer tube .....		.....	BC/52
Plate	Button board with holes .....		.....	SU/747
Actuator	Keyswitch, plastic .....		.....	PS/1217
Spring	Key contact .....		.....	ML/16
Spring	Button Keys balance, 1st row .....		.....	ML/212
Spring	Button Keys balance, 2nd row .....		.....	ML/210
Spring	Button Keys balance, 3rd row .....		.....	ML/211

# Transicord deluxe

## PARTS LIST

Part	Description	(No) & Fig.	Part Code
<b>TREBLE TABSWITCH ASSEMBLY</b>	(for PIANO & BUTTON models)	(4) 1-2-5-6-16	*4000/608
Actuator	Tabswitch; Black plastic	6-6A	PS 1104
Spring	Tabcontact	6-6A	ML 329
Spring	For Actuator	6-6A	ML 178
Tab	SLOW - FAST Complete	Blue (4) 1-2-5-16	*CA/97 - 25
Tab	FLUTES	" light grey	*CA/97 - 26
Tab	ORCHESTRA	" white	*CA/97 - 27
Tab	SUSTAIN	" light green	*CA/97 - 28
Tab	WHA - WHA	" dark green	*CA/97 - 29
Tab	LONG - SHORT	" dark red	*CA/97 - 30
Tab	SOFT-BASS-SHARP	" dark grey	*CA/97 - 31
Tab	SOFT-CHORD-SHARP	" dark grey	*CA/97 - 32
Tab	BASS - SUSTAIN	" dark grey	*CA/97 - 33
Tab	CHORD - SUSTAIN	" dark grey	*CA/97 - 34
Tab	P - f	" dark grey	*CA/97 - 35
Tab	CANCEL	" black	*CA/97 - 36
Tab	16	" light grey	*CA/97 - 37
Tab	8	" light grey	*CA/97 - 38
Tab	4	" light grey	*CA/97 - 39
Tab	2 2/3	" light grey	*CA/97 - 40
Tab	BASS CLARINET-16	" white	*CA/97 - 41
Tab	CLARINET - 8	" white	*CA/97 - 42
Tab	PICCOLO - 4	" white	*CA/97 - 43
Tab	NASARD - 2 2/3	" white	*CA/97 - 44
Tab	OBOE - 8	" white	*CA/97 - 45
Tab	TRUMPET- 8	" white	*CA/97 - 14
Tab	STRINGS - 8	" white	*CA/97 - 15
Tab	CELESTA - 8	" light green	*CA/97 - 46
Tab	CLAVICHORD- 8	" light green	*CA/97 - 47
Tab	KINURA - 8	" light green	*CA/97 - 48
Tab	16	" dark green	*CA/97 - 49
Tab	8	" dark green	*CA/97 - 50
Tab	P - f	" dark green	*CA/97 - 51
Lever	Under Tab .....	.....	LV/301
Connector	Power, Octal, mounted on chassis	(7) 1-5-16	I/121
Recessing	Shell for Octal plug connector	(7) 1-5-16	I/122
Jack	Socket for Headphone and Slalom pedal	(8-9) 1-16	RRSS - 7
Ring	for jack .....	(8-9) 1-16	DD - 29
Connector	Duo Tyne - 9 Flag contacts .....	(44) 4-8	I - 6
Connector	9 Contact P.C. board for Duo-Tyne conn.	(23) 4	PC - a/2
Connector	12 Contact P.C. board for Duo-Tyne "	(23) 4	PC - a/1
Support	for P.C. board connectors (plastic)	(23) 4	SU - 436
CABLE POWER with connectors .....	19		*2110/608
Connector	octal plug (male) with caps for cable	19	I 121 + 71
Connector	octal socket (female) with caps for cable	19	I 121 + 71

# Transicord deluxe

## PARTS LIST

Part	Description	(No) & Fig.	Part Code
BASS CASE ASSEMBLY	(for PIANO & BUTTON models)	(2) 1-2-3-16	*5000/608
Panel	Upper, Right side panel .....	.....	FI/271
Panel	Lower, Right side panel .....	.....	FI/269
Panel	Upper, Left side panel .....	.....	FI/270
Panel	Front, Right side panel .....	.....	FI/264
Panel	Front Left side panel .....	.....	FI/263
Panel	Lower, Left side panel .....	.....	FI/268
Panel	Back panel. ....	.....	FI/265
Cover	Bass Case complete with feet .....	.....	*FE 142 + PD 5
Feet	For bass cover, complete with rivet .....	.....	*PD 5 + RB 112
Clip	Bellows Fastener .....	.....	BT/30 - C
Sign	Farfisa name .....	.....	NO - 60
Tab	Rhythm control complete .....	.....	*TS 260+RP 290
Spring	Rhythm control tab balance .....	.....	ML/319
Board	Rhythm tabswitch assembly .....	.....	X/88
Connector	Duo - Tyne for P.C. - 9 flag contacts (22) 2-3-4 .....	.....	I - 6
Connector	Duo - Tyne for P.C. - 12 flag contacts (22) 2-3-4 .....	.....	I - 12
STRAP	Wrist strap .....	.....	*MAN - 1

### BASS & CHORDS KEYSWITCH ASS'Y Fig. 3-3A Schem. Ref. DWG 7

a) - PIANO and BUTTON models: /634 (Danmark, Sweden) & /635 (Norway)

Assembly	Bass & Chords Keyswitches with PA 275 (27) 3-3A DWG 7	*5200/5300/608
Board	PA 275 = complete (with springs) (27) 3-3A PA 275	*5300/608
Spring	Chords contact - complete .....	ML 219/220
Spring	Bass contact - complete .....	ML 217/218
Strip	Plastic Chords contact rail .....	PE 22
Button	Bass button .....	PI - 1
Actuator	Bass button contact .....	AR - 30
Spring	Bass button balance .....	ML - 205
Button	Chord button .....	PI - 2
Actuator	Major and diminish chords contact .....	AR - 31
Actuator	Minor chords contact .....	AR - 32
Actuator	Seventh chords contact .....	AR - 33
Spring	Chord buttons balance .....	ML - 206
Potentiometer	10 Kohm - log .....	P - 102
Knob	for potentiometer .....	MP - 31

# Transicord deluxe

## PARTS LIST

Part	Description	(No) & Fig.	Part Code	Part Code
<b>BASS &amp; CHORDS KEYSWITCH ASS'Y Fig.3-3A Schem. Ref. DWG 7</b>				
b) - BUTTON models only: 636 (France, Holland) and: 638 (Belgium, Charleroi, Bruxelles)				
		BUTTON 636	BUTTON 638	
Assembly	Bass & Chords Keypad with PA 288 .....	*5200/5300/636 .....		
Board	PA 288 complete with springs .....	*5300/636 .....		
Assembly	Bass & Chords Keypad with PA 289 .....	.....	*5200/5300/638 .....	
Board	PA 289 complete with springs .....	.....	*5300/638 .....	
Rod	Bass Buttons .....	PI - 3 ..	PI - 3 ..	
Actuator	Bass Contacts .....	AR - 55 ..	AR - 57 ..	
Spring	Bass Button Balance .....	ML - 232 ..	ML - 232 ..	
Rod	for Chord and Bass buttons .....	PI - 4 ....	PI - 4 ..	
Actuator	Fundamental Bass Contact .....	AR - 56 ..	AR - 58 ..	
Actuator	Major Chords contact .....	AR - 59 ..	AR - 59 ..	
Actuator	Minor Chords contact .....	AR - 62 ..	.....	
Actuator	Major Chords contact .....	.....	AR - 60 ..	
Actuator	Seventh Chord contact .....	AR - 70 ..	AR - 61 ..	
Button	Bass and Chord cap .....	BT - 78 ..	BT - 78 ..	
<b>BELLOWS ASSEMBLY Fig.3 (for PIANO &amp; BUTTON models)</b>				
Assembly	Bellows complete with Expression device (13) 3	.....	*7000/608	
Bellows	Bellows only (without Expression device) "	.....	*7000/30/608	
Ass'y	Expression Device complete (16)	" "	*70I0/11/608	
Photocell	LDR for the Expression device	" "	H1 = H2	
Lamp	24 V - 3W for Expression device	" "	L 12	
Photofilm	Photofilm plate for Expression	" "	DL/63	
Disk	Turn plate for Expression	" "	DL/28	
Disk	Upper and Lower plastic plate	" "	DL/31	
Plate	Expression run	" "	PS/533	
Spring	40 + 2 turns	" "	ML/210	
Spring	Expression device balance springs	" "	ML/212	
Support	Lamp Holder support	" "	SU/432	
Plate	Lamp negative contact plate	" "	CO/23	
Plate	Lamp positive contact plate	" "	CO/24	
Board	P.C. Board - PS 532 for Duo Tyne connect. (24) 3-3A	.....	PS/532	

# Transicord deluxe

PRINTED CIRCUIT BOARDS LIST

Part	Description	(No) & Fig.	Schem. Ref.	Part Code
PA 229 PA 287	TREBLE KEYSWITCHES with I.C. Dividers	(46-47) 8, 9 17, 18	DWG 2 - 3	
Board	PA 229 - complete with I.C. socket for Piano model only ....	(46) 9	PA 229	*6339/608
Board	PA 287 - complete with I.C. socket for Button models only ..	(46) 18	PA	*6397/634
Socket	I.C. Dividers (14 pin).....	(47) 9, 18	I.C. 1 ÷ 9	I/117
PA 234	TONE GENERATOR ASSEMBLY	(34) 7, 8	DWG 2	
Board	PA 234 - Generators - complete (D-G-C-F-A#-D# note)	(34) 7-8	PA 234	*6019/608-D
Board	PA 234 - Generators - complete (G#-C#-F#-B-E-A- note)	(34) 7-8	PA 234	*6019/608-G
Trimmer	Pot. 2,2 Kohm - Tuning -	(35) 7-8	VR 1	P/6
PA 261	SUSTAIN ASSEMBLY	(25-26-38-39) 3-8-12	DWG 2 - 7	
Board	PA 260 - Treble Sustain Module, comp. Fig. 12	PA 260		*6340/608
Board	PA 260-1 Bass Sustain Module, complete "	PA 260-1		*6341/608
Board	PA 260-2 Chord Sustain Module, comp. "	PA 260-2		*6342/608
Board	PA 261 Treble Sustain Assembly with 21 PA 260 module ...	(39) 8-12	PA 261	*6343/608
Board	PA 261-1 Treble Sustain Assembly with 20 PA 260 module ...	(38) 8-12	PA 261-1	*6344/608
Board	PA 261-2 Bass and Chords Sustain Ass'y with 12 PA 260-1 module and 12 PA 260-2 module	(25) 3-12	PA 261-2	*6345/608
Board	PA 261+4 Treble Sustain Assembly with 24 PA 260 module For BUTTON models only			*6348/634
PA 263	FLUTE FILTER - WHA WHA - PERCUSSION ASS'Y	(18) 2-4-10	DWG 4 - 6	
Board	PA 263 Complete	(18) 2-4-10	PA 263	*6346/608
Coil	800 mH	Fig. 10	T 1	*1 4033
Trimmer	Pot. 22 Kohm - 1660 Hz Filter Adj.	Fig. 10	VR 4	P/24
PA 264	FLUTE FILTERS 207 - 415 - 830 Hz	(19) 2-4-11	DWG 4	
Board	PA 264 - Complete	(19) 2-4-11	PA 264	*6347/608
Trimmer	Pot. 22 Kohm - Flute filters Adj.	(19) 2-4-11	VR 3 - 5 - 6	P/24

# Transicord deluxe

PRINTED CIRCUIT BOARDS LIST

Part	Description	(No) & Fig.	Schem. Ref.	Part Code
<u>PA 265</u>	<u>BASS - CHORDS FILTERS and AMPLIFIERS</u>	(32) 6-6A	<u>DWG 7 - 8</u>	
Board	PA 265 - Complete	(32) 6-6A	PA 265	*6348/608
Trimmer	Pot. 1 Kohm Anticlick Adj. (+5,6)	6-6A	VR 23	P/8
Trimmer	Pot. 4,7 Kohm = Output level Adj.	6-6A	VR 22	P/37
Trimmer	Pot. 22 Kohm = Bass soft and Sharp filters Adj.	6-6A	VR 15 - 16	P/24
<u>PA 266</u>	<u>SUSTAIN - ORCHESTRA FILTERS</u>	(20) 2-4-13	<u>DWG 5</u>	
Board	PA 266 - Complete .....	(20) 2-4-13	PA 266	*6349/608
<u>PA 267</u>	<u>SWITCHING</u>	(17) 2-4-14	<u>DWG 3</u>	
Board	PA 267 - Complete .....	(17) 2-4-14	PA 267	*6350/608
<u>PA 268</u>	<u>RHYTHMS &amp; VIBRATO ASS'Y</u>	(33) 6-6A	<u>DWG 6 - 8</u>	
Board	PA 268 - Complete .....	(33) 6-6A	PA 268	*6351/608
Coil	220 mH .....	6-6A	T 5	T/4011
Trimmer	Pot. 1 K- Brush & Drum Level Adj.	6-6A	VR 20-21	P/8
Trimmer	Pot. 22 Kohm - Vibrato Adj.	6-6A	VR 10	P/24
Trimmer	Pot. 47 Kohm - Vibrato Adj.	6-6A	VR 11	P/34
<u>PA 271</u>	<u>SUSTAIN AMPLIFIER</u>	(21) 2-4-15	<u>DWG 6</u>	
Board	PA 271 - Complete	(21) 2-4-15	PA 271	*6352/608
<u>PA 275</u>				
<u>PA 288</u>	<u>BASS &amp; CHORDS KEYSWITCHES</u>	(27) 3-3A	<u>DWG 7</u>	
<u>PA 289</u>				
Board	PA 275 - Complete with contact springs for PIANO and BUTTON models 608, 634 and 635	(27) 3-3A	PA 275	*5300/608
Board	PA 288 - Complete with contact springs for BUTTON model 636	(27) 3-3A	PA 288	*5300/636
Board	PA 289 - Complete with contact springs for BUTTON model 638	(27) 3-3A	PA 289	*5300/638

# Transicord deluxe

## CAPACITORS LIST

$\mu\text{F}$	WVDC	PRINTED BOARDS REFERENCE	(No) & Fig.	Drawing	Ref.	Part Code
<u>ELECTROLYTIC</u>						
1	25	PA 263 = PA 268 .....	6-6A-10	4 - 6 - 8		C 41
5	25	PA 263 = PA 268 .....	6-6A-10	4 - 6 - 8		C 1030
10	25	PA 263 = PA 268 .....	6-6A-10	4 - 6 - 8		C 1009
25	25	PA 263 = PA 268 .....	6-6A-10	4 - 6 - 8		C 1012
50	15	PA 263 = PA 265 = PA 268 .....	6-6A-10	4 - 6 - 7 - 8		C 1002
50	25	PA 260 .....	12 .....	2 - 7 ...		C 81
100	15	PA 268 = PA 271 .....	6-6A-15	6 - 8 ...		C 92
100	30	PA 264 .....	11 .....	4 .....		C 93
200	15	PA 263 = PA 265 .....	6-6A-10	4 - 6 ...		C 1057
500	25	PA 268 .....	6-6A ..	6 - 8 ...		C 1039
500	30	PA 234 .....	7-8 ...	2 .....		C 42
1000	12/16	PA 265 .....	6-6A ..	7 - 8 ...		C 1000
1000	25	PA 265 .....	6-6A ..	7 - 8 ...		C 1041
<u>POLYESTER FILM</u>						
0,1	200 V.	PA 229/287 = 263 = 264 = 265 =	6-9-10-11	2 - 3 - 4		C 526
		PA 267 = 268 = 271 .....	14-15-18	6 - 7 - 8		
0,15	200 V.	PA 264 = 265 .....	11-6-6A	4 - 7 - 8		C 525
0,18	200 V.	PA 263 = 268 .....	10-6-6A	4 - 6 - 8		C 608
0,22	200 V.	PA 263 = 265 .....	10-6-6A	4 - 6 ...		C 549
0,27	200 V.	PA 263 = 264 .....	10-11..	4 - 6 ...		C 527
0,47	200 V.	PA 264 .....	11 .....	4 .....		C 528
1	250 V.	PA 264 = 265 = 268 .....	11-6-6A	4 - 6 - 7 - 8		C 157
<u>MINIATURE METALLIZED POLYESTER FILM</u>						
1 Kp	200 V 10 %	PA 265 = 268 .....	6-6A ..	6 - 7 - 8		C 602
0,056	200 V "	PA 263 = 265 .....	10-6-6A	4 - 6 - 7 - 8		C 620
0,1	200 V "	PA 265 .....	6-6A ..	7 - 8 ...		C 151
0,18	200 V "	PA 263 .....	10 .....	4 - 6 ...		C 608
0,22	200 V "	PA 265 = 268 .....	6-6A ..	6 - 7 - 8		C 606
0,47	200 V "	PA 265 .....	6-6A ..	7 - 8 ...		C 616
1	250 V "	PA 264 = 265 = 268 .....	11-6-6A	4 - 6 - 7 - 8		C 157
<u>POLYCARBONATE FILM</u>						
330	125 V 10 %	PA 266 .....	13 .....	5 .....		C 536
470	125 V "	PA 266 .....	13 .....	5 .....		C 537
560	125 V "	PA 265 = 268 .....	6-6A ..	6 - 7 - 8		C 532
680	125 V "	PA 266 = 268 .....	13-6-6A	5 - 6 - 8		C 542
<u>CERAMIC</u>						
150	125 V 10 %	PA 260 = 260- 1 = 260 - 2	12 .....	2 - 7 ...		C 233
220	125 V "	PA 268 .....	6-6A ..	6 - 8 ...		C 535
330	125 V "	PA 268 .....	6-6A ..	6 - 8 ...		C 536

# Transicord deluxe

## TRANSISTORS & DIODES LIST

Schem. Ref.	Circuit	(No) & Fig.	Type	Part Code
<u>PA 229</u>	<u>TREBLE CONTACT BOARD (46-47) Fig.9</u>	(for PIANO model only)		
I.C. 1+9	Integrated frequency divider...	.....		W 127
<u>PA 234</u>	<u>TONE GENERATOR (34) Fig. 7</u>			
Q 1				
Q 2	Mvbtr. Master Oscillator.....	2N 5172.....		W 126
Q 3				
D 1	Base breakdown protection.....	SGS IX 9809.....		B 34
D 2				
D 3	Threshold.....	PAE R/6.....		B 18
		IRCI 10D4.....		B 51
<u>PA 260</u>	<u>SUSTAIN MODULE (38-39) Fig. 8-12</u>			
D 4	Sustain gate.....	SGS IX 9809.....		B 34
<u>PA 260-1</u>	<u>BASS SUSTAIN MODULE (25) Fig. 3-12</u>			
D 15	Sustain gate.....	SGS IX 9809.....		B 34
D 16				
<u>PA 260-2</u>	<u>CHORD SUSTAIN MODULE (25) Fig. 3-12</u>			
D 17	Sustain gate.....	SGS IX 9809.....		
<u>PA 263</u>	<u>FLUTE FILTER - WHA WHA - PERCUSSION (18) Fig. 2-4-10</u>			
Q 7	1660 Hz. Flute Filter.....	BC 109 B or C red dot		W 143- W 145
		*BC 209 B or C red dot		W 148- W 150
Q 8	1660 Hz. Buffer.....	BC 109 B or C blue dot		W 144- W 146
		*BC 209 B or C blue dot		W 149- W 151
Q 18	Wha Wha modulator.....	BC 109 B or C red dot		W 143- W 145
Q 19		*BC 209 B or C red dot		W 148- W 150
Q 20	Percussion Pulse detector.....	BC 108 B or C .....		W 106- W 107
		*BC 208 B or C .....		W 116- W 117
		BC 109 B or C .....		W 101- W 98
		*BC 209 B or C .....		W 110- W 111
Q 21	Percussion Mvbtr.....	2N 5172.....		W 126
Q 22				
Q 23	Percussion Keyer.....	BC 109 B or C red dot		W 143- W 145
Q 24	Percussion preamplifier.....	*BC 209 B or C red dot		W 148- W 150
D 10	Attack Driver.....	OA 70.....		B 8

# Transicord deluxe

## TRANSISTORS & DIODES LIST

Schem. Ref.	Circuit	(No) & Fig.	Type	Part Code
<u>PA 264</u>	<u>FLUTE FILTERS</u>	<u>(19) Fig. 2-4-11</u>		
Q 5	830 Hz Flute Filter.....	BC 109 B or C red dot	W 143- W 145	
Q 9	207 Hz Flute Filter.....	*BC 209 B or C red dot	W 185- W 150	
Q 11	415 Hz Flute Filter.....			
Q 6	830 Hz Buffer.....	BC 109 B or C blue dot	W 144- W 146	
Q 10	207 Hz Buffer.....	*BC 209 B or C blue dot	W 149- W 151	
Q 12	415 Hz Buffer.....			
<u>PA 265</u>	<u>TREBLE PREAMPLIFIER &amp; OUTPUT AMPLIFIER</u>	<u>(32) Fig. 6</u>		
Q 35	Bass Filter.....	BC 109 B or C red dot	W 143- W 145	
Q 36	Bass & Chords Preamplifier.....	*BC 209 B or C red dot	W 148- W 150	
Q 37	Chord Filter.....			
Q 51	Treble Preamplifier (1° stage)...	SGS IW 9640.....	W 89	
Q 52	Treble Preamplifier (2° stage)...	SGS BC 116.....	W 80	
Q 53	Output amplifier (1° stage)....	BC 109 B or C red dot	W 143- W 145	
Q 54	Output amplifier (2° stage)....	*BC 209 B or C red dot	W 148- W 150	
Q 55	Output amplifier (3° stage)....	SGS BC 116.....		
<u>PA 268</u>	<u>VIBRATO-DRUM &amp; BRUSH SECTION - BASS CHORDS &amp; RHYTHMS PREAMPL.</u>	<u>(33) Fig. 6</u>		
Q 25	Vibrato phase splitter.....	BC 109 B or C red dot	W 143- W 145	
Q 26	Vibrato preamplifier.....	*BC 209 B or C red dot	W 148- W 150	
Q 27	Vibrato phase Keyer.....	SGS IW 11706.....	W 71	
Q 28	Vibrato oscillator.....	2N 5172 .....	W 126	
Q 40	Drum pulse detector.....	BC 109 B or C	W 98- W 101	
Q 41	Brush Pulse Detector.....	*BC 209 B or C	W 110- W 111	
Q 42	Drum Multivibrator.....	2N 5172.....	W 126	
Q 43	Brush Multivibrator.....			
Q 44	Drum Multivibrator.....	SGS IW 11711.....	W 112	
Q 45	Brush Multivibrator.....	SGS IW 9640.....	W 89	
Q 46	Noise Generator.....	2N 5172.....	W 126	
Q 47	Drum Oscillator.....	SGS BC 115.....	W 28	
Q 48	Brush Keyer.....	SGS IW 9640.....	W 89	
Q 49	Bass chords & Rhythms.....	BC 109 B or C red dot	W 143- W 145	
		*BC 209 B or C red dot	W 148- W 150	
Q 50	Bass chords & Rhythms preampl...	SGS IW 9640.....	W 89	

# Transicord deluxe

## TRANSISTORS & DIODES LIST

Schem. Ref.	Circuit	(No) & Fig.	Type	Part Code
<u>PA 268</u>	<u>Cont'd</u>			
Z 1	Brush noise Generator.....	SGS IZ 9824.....	B 27	
D 20	Drum Control Driver.....			
D 21	Control Driver.....	SGS IX 9809		
D 22	Diode.....			B 34
D 23	Diode.....			
<u>PA 271</u>	<u>SUSTAIN AMPLIFIER (21)</u>	<u>Fig. 2-4-15</u>		
Q 15	Sustain preamplifier .....	BC 109 B or C red dot	W 143- W 145	
Q 16	Orchestra preamplifier.....	*BC 209 B or C red dot	W 148- W 150	
Q 17	Flutes preamplifier.....			
<u>PA 287</u>	<u>TREBLE CONTACT BOARD (46-47)</u>	<u>Fig. 17-18</u>	(for BUTTON models only)	
I.C. 1+9	Integrated frequency divider	.....		W 127

# Power Supply Unit-“ATR/3”-

## PARTS LIST

Part	Description	(No) & Fig.	Schem. Ref.	Part Code
<u>POWER SUPPLY UNIT = ATR/3</u>				
		Fig. 19-20-21	DWG 1-SE/105	ATR/3=RE617
Cord	A.C. POWER (USA = UL) .....	fig. 19-20	.....	K 191
”	A.C. POWER (CANADA = CSA) .....	” ” ”	.....	K 38
”	A.C. POWER (EUROPE) .....	” ” ”	.....	K 27
Fuse	4/10 A Slo-Blo, 3 AG (USA, CANADA)	” ” ”	.....	F 61
”	200 mA Slo-Blo, 5 x 20 mm (EUROPE)	” ” ”	.....	F 1
Fuse Holder	n USA - CANADA Type .....	” ” ”	.....	S 34
” ”	EUROPE Type .....	” ” ”	.....	S 29A
Jack	Plug (Audio signal output cable)	” ” ”	.....	RRSS 25
Switch	A.C. ON/OFF -slide - lighted (UID)	” ” ”	.....	X 82
Socket	Octal, female, for Power Cable	” ” ”	.....	I 120
Transformer	Power - T 1067-2 .....	” ” ”	T 1067 ..	T 1067-2
Resistor	82 ohm, 10 W, 10 %, Wirewound ...	” ” ”	R 3 .....	R 4070
Resistor	15 ohm, 10 W (5W), 10 %, WireWound	” ” ”	R 4 .....	R 4052
Resistor	1,8 ohm, 10 W(5W), 10 %, WireWound	” ” ”	R 11 .....	R 4030
Handle	complete .....	” ” ”	.....	MG 25
<u>PRINTED CIRCUIT BOARDS</u>				
Board	PA 237-2 Rectifier, complete	fig. 20-21	PA 237 ..	*6353/617
Board	PA 238 Regulator, complete	” ” ”	PA 238 ..	*6354/617
Capacitor	200 uF - 25 V , Electrolytic	” ” ”	C 4 .....	C 1054
Capacitor	1000 uF- 25 V , ”	” ” ”	C 3 - C 6	C 1041
Capacitor	1000 uF- 40 V , ”	” ” ”	C 1 - C 5	C 1066
Capacitor	1000 uF- 50 V , ”	” ” ”	C 2 .....	C 94
Fuse	1 A Slo-Blo, 5 x 20 (only Europe)	” ” ”	F 2 .....	F 6
Fuse	50mA Slo-Blo, 5x20 (only Europe)	” ” ”	F 3 .....	F 13
Resistor	560 ohm, 5 W, 10 %, WireWound	” ” ”	R 7 .....	R 612
Trimmer	Pot. 1 Kohm, WireWound, +19V Adj.	” ” ”	VR 1 .....	P 147

# Power Supply Unit "ATR/3" - TRANSISTORS & DIODES LIST

Schem. Ref.	Circuit	(No) & Fig.	Type	Part Code
<u>CHASSIS</u>		<u>POWER SUPPLY Fig. 20-21 = DWG 1 SE/105</u>		
Q 1	Series Regulator .....	SGS BD 117 .....		W 84
<u>PA 237</u>		<u>POWER SUPPLY= RECTIFIER BOARD = Fig. 20-21</u>		
D 5	Rectifier ..... (4 Diodes) ...	SGS IX 9809 .....		B 34
D 6	Rectifier Bridge .....	GIE B35-C800 .....		Y 22
Z 3	Voltage Regulator, 15V, Zener Diode	ITT STANDARD ZF 15		B 85
<u>PA 238-1</u>		<u>POWER SUPPLY= REGULATOR BOARD = Fig. 20-21</u>		
Q 2	Driver Transistor .....	SGS BC 143 .....		W 63
Q 3	Feedback Amplifier .....	BC 107 A or B .. MISTRAL BC 207 A or B		W 103- W 104 W 108- W 109
D 1	Current limiter (first serial only)	SGS IX 9809 .....		B 34
D 2 V				
D 3	Temperature Compensator .....	SGS IX 9809 .....		B 34
D 4				
Z 1	Voltage reference, Zener Diode	MULLARD BZY 88-65V6 IRCI 1N 708..... ITT STANDARD ZF 5,6		B 38 B 68 B 69
Z 2	+12 V drop - Zener Diode .....	IRCI 1Z 6,2 .....		B 87
		IRCI 1ZC 6,2 .....		B 88
		ITT STANDARD ZD 6,2		B 89
		MULLARD BZY 96 C6V2		B 90